San Bernardino County Live Births 1990-2000



San Bernardino County Department of Public Health August 2002

San Bernardino County Live Births 1990-2000

Live birth outcomes and characteristics, including progress toward achieving Healthy People 2000 Objectives



Prepared by: County of San Bernardino County Human Services System Department of Public Health August, 2002

ACKNOWLEDGMENTS

This report was prepared by Evelyn Trevino of the Program Analysis and Statistics Section of the San Bernardino County Department of Public Health. Others contributing to this report include Thomas J. Prendergast, Jr., M.D., MPH, Director of Public Health; and Terri Carlson, MSPH, Program Analysis and Statistics Program Manager.

Users are welcome to reproduce or quote this document in whole or in part provided that acknowledgment is given. Suggested citation:

San Bernardino County Live Births 1990-2000, San Bernardino County Department of Public Health, San Bernardino, California, August, 2002.

Inquiries regarding this report should be directed to:

County of San Bernardino
Department of Public Health
Program Analysis and Statistics
351 North Mountain View Avenue
San Bernardino, California 92415-0010
(909) 387-6770

TABLE OF CONTENTS

| Introduction | 7 |
|--|----|
| Live Births and Birth Rates | 9 |
| Live Births and Birth Rates: Teen Mothers | 13 |
| Low Birthweight Live Births | 19 |
| Very Low Birthweight Live Births | 24 |
| First Trimester Prenatal Care | 28 |
| Pay Source for Prenatal Care | 34 |
| Method of Delivery | 35 |
| Mother's Place of Birth | 36 |
| Mother's Education. | 37 |
| Mother's Marital Status | 38 |
| Fetal Deaths | 39 |
| Infant Mortality. | 41 |
| Appendix A. Glossary of Terms | 55 |
| Appendix B. Rates and Ratios | 56 |
| Appendix C. San Bernardino County Resident Live Births by Mother's Race/Ethnicity, 1990-2000 | 57 |
| Appendix D. San Bernardino County Resident Live Births by Selected Characteristics and ZIP Code, 1998-2000 | 59 |

LIST OF TABLES

| Live Births, Crude Birth Rates, and General Fertility Rates, California and San Bernardino County |
|---|
| Residents, 1990-2000 |
| Live Birth Rates for Mothers 15-17 and 15-19 Years of Age, California and San Bernardino |
| County Residents, 1990-2000 |
| Number and Percent of Low Birthweight Live Births by Race/Ethnicity of Mother, California and |
| San Bernardino County Residents, 1990-200021 |
| Number and Percent of Very Low Birthweight Live Births by Race/Ethnicity of Mother, California |
| and San Bernardino County Residents, 1990-2000 |
| Number and Percent of Live Births to Mothers Receiving First Trimester Prenatal Care, California |
| and San Bernardino County Residents, 1990-2000 |
| Live Births by Pay Source for Prenatal Care, California and San Bernardino County Residents, |
| 1990-200033 |
| Live Births by Method of Delivery, California and San Bernardino County Residents, |
| 1990-200034 |
| Live Births by Mother's Place of Birth, California and San Bernardino County Residents, 1990- |
| 200035 |
| Live Births by Mother's Education, California and San Bernardino County Residents, |
| 1990-2000 |
| Live Births by Mother's Marital Status, California and San Bernardino County Residents, 1990- |
| 200037 |
| Fetal Deaths and Fetal Death Rates, California and San Bernardino County Residents, |
| 1990-200039 |
| Infant Deaths and Infant Mortality Rates by Race/Ethnicity of Mother, California and San |
| Bernardino County Residents, 1990-1999 |
| Neonatal Deaths and Neonatal Mortality Rates by Race/Ethnicity of Mother, California and San |
| Bernardino County Residents, 1990-2000 |
| Fetal Deaths, Neonatal Infant Deaths, and Neonatal to Fetal Death Ratio, San Bernardino County |
| and Remainder of California, 1989-1999 |
| Postneonatal Deaths and Postneonatal Mortality Rates by Race/Ethnicity of Mother, California and |
| San Bernardino County Residents, 1990-2000 |
| |

LIST OF FIGURES

| 1. | Live Births and General Fertility Rates, San Bernardino County Residents, 1990-20009 |
|-----|--|
| 2. | Birth Rates by Race, San Bernardino County Residents, 1990-200011 |
| 3. | Live Births by Mother's Race/Ethnicity, San Bernardino County Residents, 1990-200012 |
| 4. | Live Births and Birth Rates: Mothers 15-19 Years, San Bernardino County Residents, 1990-2000 |
| 5. | Birth Rates for Mothers Aged 15-19 Years by ZIP Code, San Bernardino County Residents, 2000 |
| 6. | Live Births and Birth Rates: Mothers 15-17 Years, San Bernardino County Residents, 1990-2000 |
| 7. | Birth Rates by Race: Mothers Aged 15-19 Years, San Bernardino County Residents, 1990-2000 |
| 8. | Live Births by Race: Mothers Aged 15-19 Years, San Bernardino County Residents, 1990-2000 |
| 9. | Percent Low Birthweight Live Births, California and San Bernardino County Residents, 1990-2000 |
| 10. | Percent Low Birthweight Live Births to Black Mothers, California and San Bernardino County Residents, 1990-2000 |
| 11. | Percent Low Birthweight Live Births to Hispanic Mothers, California and San Bernardino County Residents, 1990-2000 |
| 12. | Percent Low Birthweight Live Births to White Mothers, California and San Bernardino County Residents, 1990-2000 |
| 13. | Percent Low Birthweight Births by ZIP Code, San Bernardino County Residents, 200023 |
| | Percent Very Low Birthweight Live Births, California and San Bernardino County Residents, 1990-2000 |
| 15. | Percent Very Low Birthweight Live Births to Black Mothers, California and San Bernardino County Residents, 1990-2000 |
| 16. | Percent Very Low Birthweight Live Births to Hispanic Mothers, California and San Bernardino County Residents, 1990-2000 |
| 17. | Percent Very Low Birthweight Live Births to White Mothers, California and San Bernardino County Residents, 1990-2000 |
| 18. | Percent of Live Births to Mothers Receiving First Trimester Prenatal Care, California and San Bernardino County Residents, 1990-2000 |
| 19. | Percent First Trimester Prenatal Care by ZIP Code, San Bernardio County Residents, 200029 |
| 20. | Percent of Live Births to Black Mothers Receiving First Trimester Prenatal Care, California and San Bernardino County Residents, 1990-2000 |
| 21. | Percent of Live Births to Hispanic Mothers Receiving First Trimester Prenatal Care, California and San Bernardino County Residents, 1990-2000. |
| 22. | Percent of Live Births to White Mothers Receiving First Trimester Prenatal Care, California and San Bernardino County Residents, 1990-2000. |
| 23. | Fetal Death Rates, California and San Bernardino County Residents, 1990-200038 |
| | Infant Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-199941 |

San Bernardino County Live Births 1990-2000

| 25. | Infant Mortality Rate by ZIP Code, San Bernardino County Residents, 1996-199942 |
|-----|--|
| 26. | Black Infant Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-1999 |
| 27. | Hispanic Infant Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-1999 |
| 28. | White Infant Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-1999 |
| 29. | Neonatal Mortality Rates, California and San Bernardino County Resident Birth Cohorts, 1990- |
| | 199946 |
| 30. | Black Neonatal Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-1999 |
| 31. | Hispanic Neonatal Mortality Rates, California and San Bernardino County Resident Birth Cohorts |
| | 1990-1999 |
| 32. | White Neonatal Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-1999 |
| 33. | Postneonatal Mortality Rates, California and San Bernardino County Resident Birth Cohorts, |
| | 1990-199951 |
| 34. | |
| | Cohorts, 1990-1999 |
| 35. | The second secon |
| | Cohorts, 1990-1999 |
| 36. | White Postneonatal Mortality Rates, California and San Bernardino County Resident Birth |
| | Cohorts, 1990-1999 |

INTRODUCTION

The purpose of this report is to describe San Bernardino County resident births and birth outcomes from 1990 to 2000, including progress toward meeting Healthy People 2000 Objectives. The birth characteristics and outcomes examined, including comparisons by mother's race/ethnicity and to California residents for many measures, are:

- Number of births and birth rates
- Births to teen mothers
- Low birthweight and very low birthweight
- Prenatal care onset
- Pay source for prenatal care
- Method of delivery
- Mother's birthplace

- Mother's education
- Mother's marital status
- Fetal mortality
- Infant mortality
- Neonatal infant mortality
- Postneonatal infant mortality
- Neonatal to fetal death ratio.

In July 1991 the United States Centers for Disease Control and Prevention released a set of eighteen health status indicators, and encouraged their use by federal, state, and local health agencies *I*. It presented a national prevention strategy for significantly improving the health of the American people, and identified three broad goals and 319 objectives which became known as the Healthy People 2000 (HP 2000) objectives. The objectives addressed in this report are:

- Reduce the infant mortality rate to no more than 7 per 1,000 live births.
- Reduce the infant mortality rate among blacks to no more than 11 per 1,000 live births.
- Reduce the neonatal mortality rate to no more than 4.5 per 1,000 live births.
- Reduce the neonatal mortality rate among blacks to no more than 7 per 1,000 live births.
- Reduce the postneonatal mortality rate to no more than 2.5 per 1,000 live births.
- Reduce the postneonatal mortality rate among blacks to no more than 4 per 1,000 live births.
- Reduce the fetal death rate (20 or more weeks gestation) to no more than 5 per 1,000 live births plus fetal deaths.
- Reduce low birthweight to an incidence of no more than 5 percent of live births and very low birthweight to no more than 1 percent of live births.
- Reduce low birthweight among blacks to an incidence of no more than 9 percent and very low birthweight among blacks to no more than 2 percent.
- Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy.
- Increase to at least 90 percent the proportion of all black and Hispanic pregnant women who receive prenatal care in the first trimester of pregnancy.

Of the above objectives five had been met in San Bernardino County by the year 2000; each was achieved in the specific year(s) indicated:

¹ U.S. Department of Health and Human Services, *Healthy People 2000: National Health Promotion and Disease Prevention Objectives*, Public Health Service, Washington, D.C., 1991.

San Bernardino County Live Births 1990-2000

- Fetal death rate (1999)
- Black infant mortality rate (1996)
- Black neonatal infant mortality rate (1996)
- Postneonatal infant mortality rate (1999)
- Black postneonatal infant mortality rate (1995, 1996)

Several data sources were used to derive the measures shown in this report. Most of the information was obtained from 1990 through 2000 birth public use files produced by the State of California Department of Health Services (CA DHS). Birth rates were calculated using population estimates from the California Department of Finance, *Race/Ethnic Population Estimates with Age and Sex Detail, 1970-2040*, December 1998. Fetal death statistics were compiled from the CA DHS fetal death files. Infant mortality statistics were extracted from the CA DHS birth cohort files. These files consist of linked birth and death records, and are available approximately three years after the year of birth; hence the infant mortality statistics in this report are for the years 1990 through 1999. However, infant mortality figures are not shown for 1998, as CA DHS did not produce the birth cohort file for that year. It is important to note that the CA DHS updates the cohort files as new information is obtained. Consequently, figures shown in this report that were derived from the cohort files may differ slightly from figures produced from other CA DHS data sources.

Race/ethnicity references throughout this report refer to the race/ethnicity of the mother on the birth record. Ninety-four percent of San Bernardino County's live births for the review period are from the three mutually exclusive groups: black, non-Hispanic; Hispanic; and white, non-Hispanic; therefore, other race groups are analyzed to a lesser degree due to the small numbers of events. Throughout this report these three groups are referred to as black, Hispanic and white, respectively.

Beginning in 2000, the California certificate of live birth was modified to allow reporting of up to three races for the mother. Therefore, reported race/ethnicity for the year 2000 is somewhat changed from prior years. For year 2000 birth counts and rates in this report, mother's race is reported using a "generated" race field. Generated race is defined as the first race listed on the birth certificate, unless Hawaiian is listed second or third, in which case the generated race is Hawaiian. Generated race currently is being reported by both CA DHS and the National Center for Health Statistics, since its single race categories correspond to available population denominators.

The counts and rates in this report were compiled and calculated by the San Bernardino County Department of Public Health, Program Analysis and Statistics Section.

LIVE BIRTHS AND BIRTH RATES

After the continuous increase in births and rates throughout the 1980's, the 1990's saw decreasing live births and fertility rates, as shown in Figure 1. The largest number of live births to San Bernardino County residents during the review period was in 1990, with 33,393 births. The corresponding general fertility rate, defined as live births per 1,000 women 15 through 44 years of age, was 96.8. By 2000 the general fertility rate had fallen 22 percent to 75.9, although the number of births began increasing in 1999, ending a decade long trend of decreasing births.

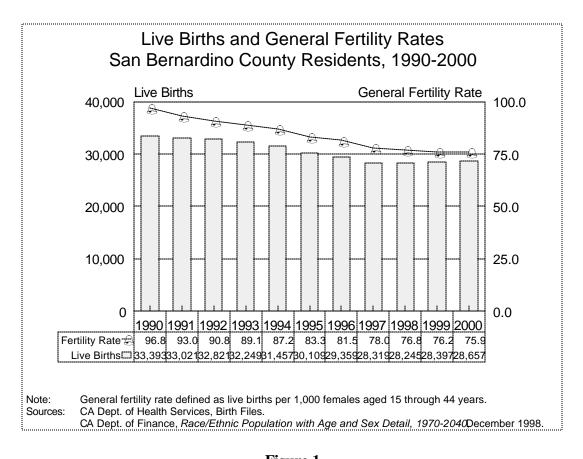


Figure 1

Table 1 compares the crude birth rate, defined as live births per 1,000 population, and general fertility rate for San Bernardino County and California residents over the review period. Both the crude birth rate and the general fertility rate in San Bernardino County were higher than the rates for California every year from 1990 to 2000. In 2000, San Bernardino County's general fertility rate was about six percent higher than California's.

Table 1
Live Births, Crude Birth Rates, and General Fertility Rates
California and San Bernardino County Residents, 1990-2000

| | | California | ì | San Bernardino County | | | | |
|------|-------------|---------------------|---------------------------|-----------------------|---------------------|---------------------------|--|--|
| Year | Live Births | Crude Birth Rate | General Fertility Rate | Live Births | Crude Birth Rate | General Fertility Rate | | |
| 1990 | 611,666 | 20.4 | 84.7 | 33,393 | 23.2 | 96.8 | | |
| 1991 | 609,228 | 19.9 | 83.5 | 33,021 | 22.2 | 93.0 | | |
| 1992 | 600,838 | 19.3 | 82.0 | 32,821 | 21.4 | 90.8 | | |
| 1993 | 584,483 | 18.5 | 80.1 | 32,249 | 20.8 | 89.1 | | |
| 1994 | 567,034 | 17.8 | 78.1 | 31,457 | 20.1 | 87.2 | | |
| 1995 | 551,226 | 17.2 | 76.3 | 30,109 | 19.0 | 83.3 | | |
| 1996 | 538,628 | 16.6 | 74.7 | 29,359 | 18.4 | 81.5 | | |
| 1997 | 524,174 | 15.9 | 72.2 | 28,319 | 17.5 | 78.0 | | |
| 1998 | 521,265 | 15.6 | 71.4 | 28,245 | 17.1 | 76.8 | | |
| 1999 | 518,073 | 15.2 | 70.5 | 28,397 | 16.8 | 76.2 | | |
| 2000 | 531,285 | 15.3 | 71.9 | 28,657 | 16.6 | 75.9 | | |

Notes: General fertility rate defined as live births per 1,000 female population

aged 15-44 years.

Crude birth rate defined as live births per 1,000 population.

Sources: California Department of Health Services, Birth Files.

California Department of Finance, Race/Ethnic Population with Age and Sex

Detail, 1970-2040, December 1998.

Live Births and Birth Rates by Race/Ethnicity of Mother

Figure 2 shows that in San Bernardino County the highest birth rates were among women of Hispanic origin, whose birth rate remained the most stable over the review period. Birth rates for white and black mothers showed a declining trend over the decade, with the white rate falling 46 percent and the black rate falling 26 percent. In 2000, the birth rate for Hispanics was almost 2.6 times higher than for whites, and about 1.7 times higher than for blacks.

The apparent increase in the birth rate for mothers of "other" race/ethnicity during the single year 1994 is an artifact of reporting practices during that year. The State's Automated Vital Statistics System (AVSS) was implemented in San Bernardino County in 1994. The CA DHS document *Evaluation of Race/Ethnic Coding Data in the Birth Information Database* reported several anomalies in San Bernardino County's birth race/ethnicity reporting and coding practices in 1994 that were subsequently corrected.

San Bernardino County resident live births by detailed race/ethnicity categories from 1990-2000 are tabulated in Appendix C.

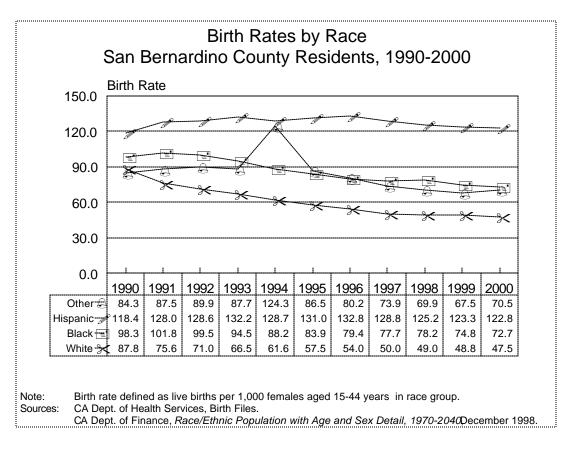


Figure 2

Dramatic changes in the proportion of births in each race/ethnic group occurred during the 1990's in San Bernardino County, as portrayed in Figure 3. From 1990 to 2000, births to white mothers changed from 54 percent of all births to 32 percent. During the same period, births to Hispanic mothers grew from 33 percent of all births to 53 percent. The proportion of births to black mothers was relatively constant, between 9 and 10 percent, throughout the decade.

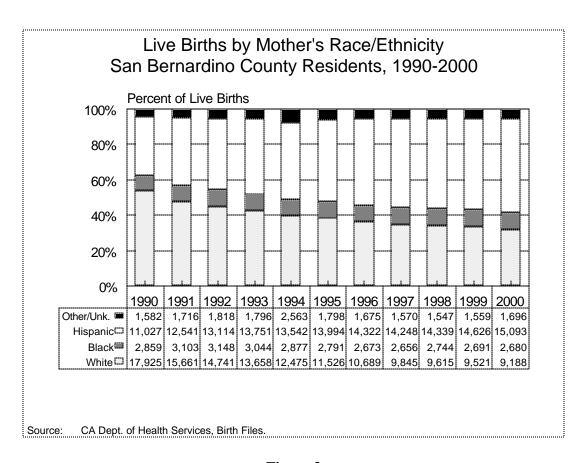


Figure 3

LIVE BIRTHS AND BIRTH RATES: TEEN MOTHERS

Mirroring state and national trends, the live birth rate among San Bernardino County resident mothers fifteen through nineteen years of age has been decreasing since 1991. The 2000 rate of 57.7 live births per 1,000 female population 15 through 19 years is 36% lower than the rate in 1991. However, the rate among San Bernardino County residents still is 20% higher than for California, which had a rate of 48.1 in 2000.

Birth rates for teen mothers residing in San Bernardino County and California are compared in Table 2. Rates for mothers ages 15-17 years and 15-19 years are shown for 1990 through 2000. For both age groups, the rate for San Bernardino County residents was higher than the rate for California residents every year of the review period. However, the percent decrease in the birth rate from 1990 to 2000 was larger for San Bernardino County than for California in both age groups of mothers. San Bernardino County's birth rate for 15-19 year old mothers decreased 36%, compared to 31% for California; and San Bernardino County's birth rate for 15-17 year old mothers decreased 40%, compared to 33% for California.

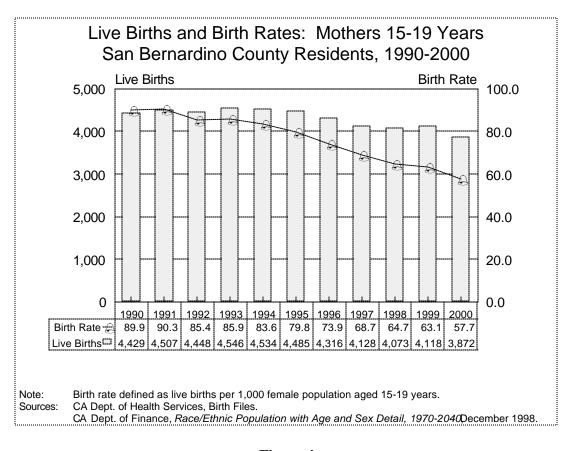


Figure 4

Table 2 Live Birth Rates for Mothers 15-17 and 15-19 Years of Age California and San Bernardino County Residents, 1990-2000

| | Mothe | rs Aged 15-17 Years | Mother | s Aged 15-19 Years | | |
|------|------------|----------------------------------|--------|-----------------------|--|--|
| Year | California | California San Bernardino County | | San Bernardino County | | |
| 1990 | 44.2 | 52.4 | 70.0 | 89.9 | | |
| 1991 | 46.5 | 54.9 | 72.9 | 90.3 | | |
| 1992 | 45.6 | 52.3 | 71.7 | 85.4 | | |
| 1993 | 45.8 | 53.6 | 71.3 | 85.9 | | |
| 1994 | 45.2 | 54.8 | 70.2 | 83.6 | | |
| 1995 | 42.9 | 48.6 | 67.2 | 79.8 | | |
| 1996 | 38.3 | 45.0 | 61.6 | 73.9 | | |
| 1997 | 35.7 | 41.7 | 56.7 | 68.7 | | |
| 1998 | 32.6 | 38.4 | 53.2 | 64.7 | | |
| 1999 | 30.1 | 37.2 | 50.2 | 63.1 | | |
| 2000 | 27.2 | 31.6 | 48.1 | 57.7 | | |

Note: Live birth rate defined as live births per 1,000 females in specified age group.

Sources: California Department of Health Services, Birth Files.

California Department of Finance, Race/Ethnic Population With Age and Sex

Detail, 1970-2040, December 1998.

San Bernardino County teen birth rates vary geographically within the county. Figure 5 presents a map of birth rates for 15-19 year old mothers by residence zip code in 2000. Higher birth rates for this age group are observed in the Barstow area in the high desert, as well as the city of San Bernardino and portions of Fontana and Ontario. A relatively high birth rate also is evident in the Big Bear Lake area; however, the rate is based on a small number of births (6) and is considered unreliable.

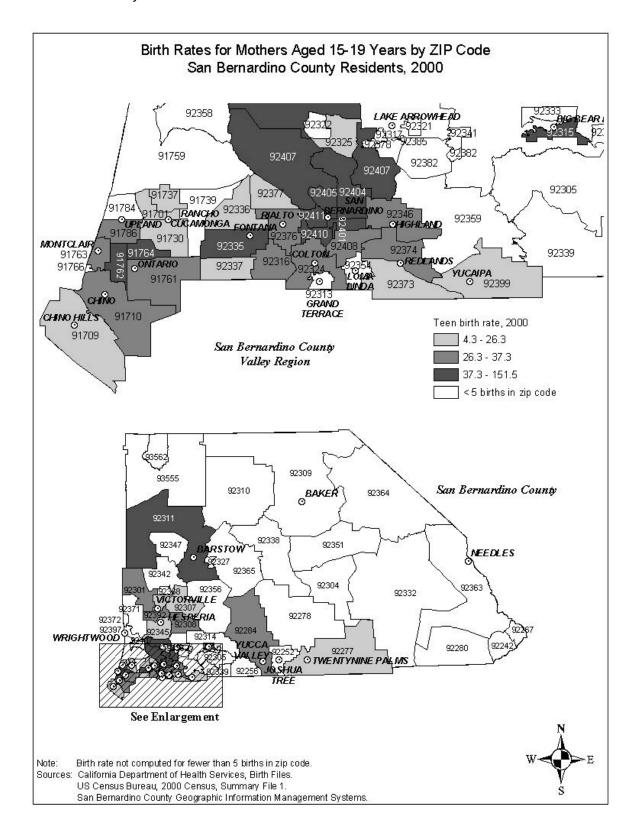


Figure 5

The live birth rate for mothers 15-17 years of age also has shown a dramatic decrease since 1994. In 2000, the rate for San Bernardino County residents was 31.6 live births per 1,000 female population 15 through 17 years, 42% lower than the highest rate during the review period, 54.8 in 1994.

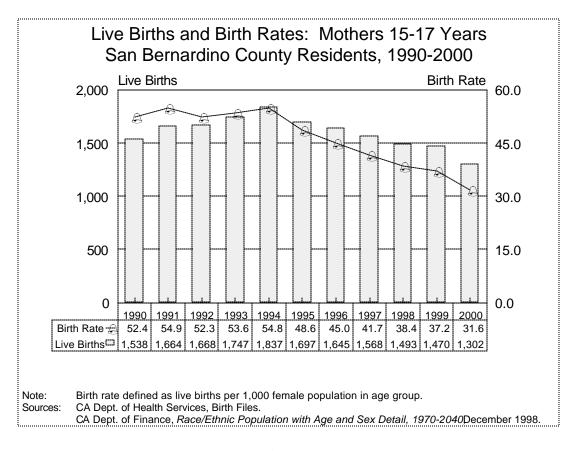


Figure 6

Live Births and Birth Rates by Race/Ethnicity of Mother: Teen Mothers

Live birth rates for teen mothers aged 15-19 years by mother's race/ethnicity are displayed in Figure 7. All race groups have experienced some decline in the birth rate; the decline has been observed since 1990 among whites and 1991 among blacks. The birth rate for black teens declined 43% from 1991 to 2000, and the rate for whites declined 63% from 1990 to 2000. Among Hispanic mothers, the birth rate increased from 1990 to 1995 and then began to decline; the 2000 birth rate was 11 percent lower in 2000 than in 1990 (98.9 compared to 111.2 respectively). Among mothers of race/ethnicities other than white, black, and Hispanic, little change was observed over the decade, although this group has the lowest birth rates of all race/ethnic groups. The apparent increase in 1994 for mothers of other race/ethnicity is an artifact of reporting and data collection during that single year; see discussion on page 11.

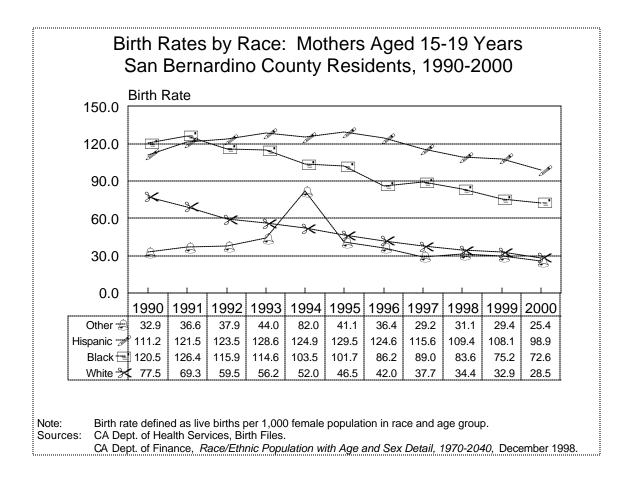


Figure 7

Similar to the trend for live births to women of all ages, among mothers aged 15 through 19 years, the proportion of births occurring in each race/ethnic group changed during the 1990's, as portrayed in Figure 8. From 1990 to 2000, births to white teen mothers dropped from 45 percent of teen births to 24 percent. During the same period, births to Hispanic teen mothers rose from 41 percent of teen births to 61 percent.

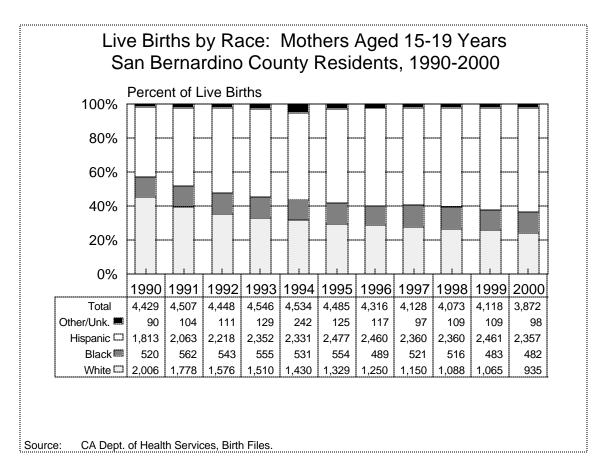


Figure 8

LOW BIRTHWEIGHT LIVE BIRTHS

Healthy People 2000 Objective: Reduce low birthweight to an incidence of no

more than 5.0 percent of live births.

2000 Status: San Bernardino County 6.6%

California 6.2%

Low birthweight is defined as birthweight of 2,499 grams (5 pounds, 8 ounces) or less. The low birthweight category includes very low birthweight live births, defined as 1,499 grams (3 pounds, 5 ounces) or less; very low birthweight births are discussed further in pages 24 through 27.

San Bernardino County's low birthweight proportion was higher than California's every year of the review period, as shown in Figure 9. The County rate was slightly higher in 2000 (6.6%) than 1990 (6.5%); the State proportion also was higher the last year than the first year of the review period (6.2% in 2000 versus 5.8% in 1990). There is no evidence from these percentages that either the County or the State has progressed toward the HP 2000 Objective in this area.

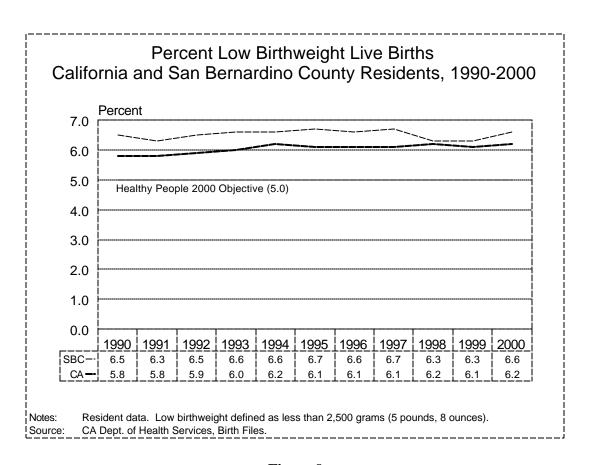


Figure 9

Low Birthweight by Race/Ethnicity of Mother

Healthy People 2000 Objective: Reduce the incidence of low birthweight among

blacks to no more than 9.0 percent.

2000 Status: San Bernardino County 11.5%

California 11.7%

Figure 10 below shows a rather erratic pattern for the percentage of low birthweight among blacks in San Bernardino County, in which the County proportion was lower than the California proportion in half of the review period years. There is no obvious trend of the County moving towards the HP 2000 Objective of 9.0. However, between 1993 and 2000 the State percentage decreased.

The number and percent of low birthweight live births by mother's race/ethnicity are presented in Table 3. Figures 11 and 12 show percent low birthweight for Hispanic and white mothers, respectively. Neither the County nor State proportion of low birthweight among Hispanic and white mothers demonstrated a downward trend over the review period. County proportions for Hispanics were lower than the State proportions only in 1998 and 1999. County proportions among white mothers were higher than the State proportions every year.

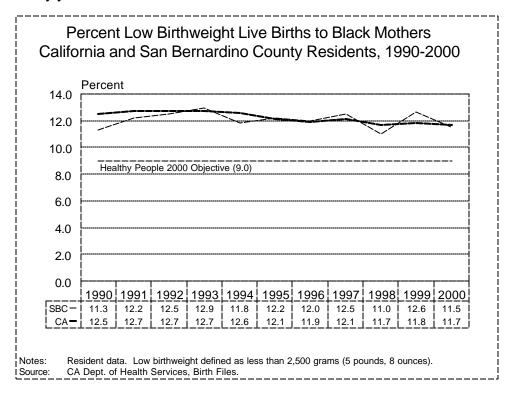


Figure 10

Table 3

Number and Percent of Low Birthweight Live Births by Race/Ethnicity of Mother
California and San Bernardino County Residents, 1990-2000

| Race/ | | | | | | | | | | | | |
|---------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Ethnicity | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | |
| NUMBER | | | | | | | | | | | | |
| California | | | | | | | | | | | | |
| Total | 35,474 | 35,359 | 35,608 | 35,116 | 34,876 | 33,588 | 32,649 | 32,232 | 32,438 | 31,686 | 32,853 | |
| Black | 6,026 | 5,934 | 5,788 | 5,587 | 5,218 | 4,736 | 4,420 | 4,356 | 4,119 | 4,045 | 3,945 | |
| Hispanic | 12,732 | 13,351 | 13,960 | 14,224 | 14,228 | 13,929 | 13,809 | 13,879 | 13,887 | 13,805 | 14,377 | |
| White | 12,972 | 12,174 | 11,863 | 11,438 | 11,323 | 10,909 | 10,255 | 9,770 | 10,132 | 9,548 | 9,745 | |
| Other | 3,744 | 3,900 | 3,997 | 3,867 | 4,107 | 4,014 | 4,165 | 4,227 | 4,300 | 4,288 | 4,786 | |
| San Bernardir | no County | | | | | | | | | | | |
| Total | 2,177 | 2,076 | 2,138 | 2,129 | 2,074 | 2,018 | 1,941 | 1,895 | 1,771 | 1,788 | 1,881 | |
| Black | 323 | 380 | 392 | 392 | 339 | 341 | 322 | 331 | 302 | 338 | 308 | |
| Hispanic | 662 | 655 | 756 | 780 | 789 | 799 | 806 | 809 | 784 | 791 | 886 | |
| White | 1,078 | 927 | 859 | 841 | 770 | 750 | 699 | 650 | 578 | 544 | 564 | |
| Other | 114 | 114 | 131 | 116 | 176 | 128 | 114 | 105 | 107 | 115 | 123 | |
| | | | | | PERCEN | IT | | | | | | |
| California | | | | | | | | | | | | |
| Total | 5.8% | 5.8% | 5.9% | 6.0% | 6.2% | 6.1% | 6.1% | 6.1% | 6.2% | 6.1% | 6.2% | |
| Black | 12.5% | 12.7% | 12.7% | 12.7% | 12.6% | 12.1% | 11.9% | 12.1% | 11.7% | 11.8% | 11.7% | |
| Hispanic | 5.2% | 5.2% | 5.3% | 5.4% | 5.5% | 5.5% | 5.4% | 5.6% | 5.6% | 5.5% | 5.6% | |
| White | 5.1% | 5.0% | 5.2% | 5.3% | 5.5% | 5.6% | 5.5% | 5.5% | 5.7% | 5.5% | 5.7% | |
| Other | 6.1% | 6.3% | 6.3% | 6.2% | 6.5% | 6.5% | 6.8% | 6.8% | 7.0% | 6.9% | 7.0% | |
| San Bernardir | no County | | | | | | | | | | | |
| Total | 6.5% | 6.3% | 6.5% | 6.6% | 6.6% | 6.7% | 6.6% | 6.7% | 6.3% | 6.3% | 6.6% | |
| Black | 11.3% | 12.2% | 12.5% | 12.9% | 11.8% | 12.2% | 12.0% | 12.5% | 11.0% | 12.6% | 11.5% | |
| Hispanic | 6.0% | 5.2% | 5.8% | 5.7% | 5.8% | 5.7% | 5.6% | 5.7% | 5.5% | 5.4% | 5.9% | |
| White | 6.0% | 5.9% | 5.8% | 6.2% | 6.2% | 6.5% | 6.5% | 6.6% | 6.0% | 5.7% | 6.1% | |
| Other | 7.2% | 6.6% | 7.2% | 6.5% | 6.9% | 7.1% | 6.8% | 6.7% | 6.9% | 7.4% | 7.3% | |
| | | | | | | | | | | | | |

Source: California Department of Health Services, Birth Files.

The geographic variation in the proportion of low birthweight live births for the year 2000 is presented in Figure 13. ZIP codes with the highest proportion of low birthweight births in 2000 included Chino Hills, Rialto, Lytle Creek, Mt. Baldy, Wrightwood, Colton, Rialto, northwest San Bernardino, north Redlands, Phelan, and the Morongo Basin.

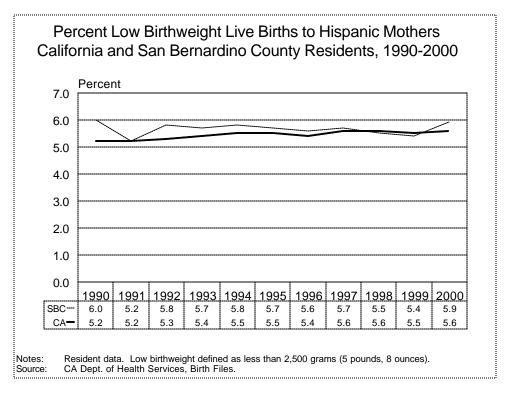


Figure 11

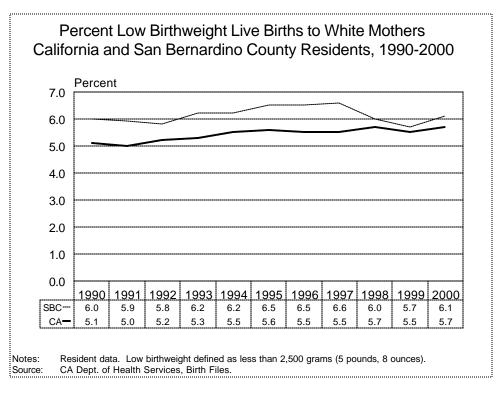


Figure 12

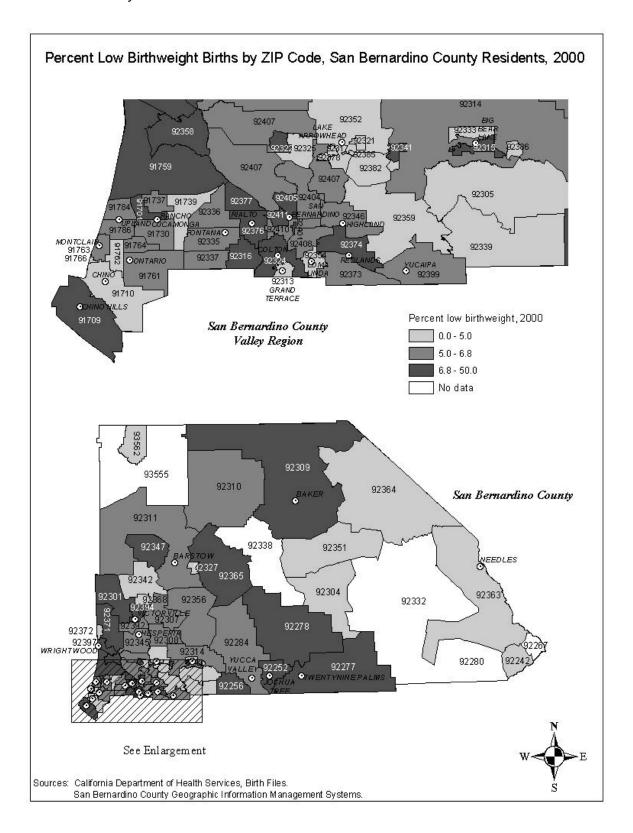


Figure 13

VERY LOW BIRTHWEIGHT LIVE BIRTHS

Healthy People 2000 Objective: Reduce very low birthweight to an incidence of no more

than 1.0 percent of live births.

2000 Status: San Bernardino County 1.4%

California 1.1%

Very low birthweight (VLBW) is defined as birthweight of 1,499 grams (3 pounds, 5 ounces) or less. This birthweight category is a subset of low birthweight, which is defined as 2,499 grams (5 pounds, 8 ounces) or less.

The percentage of VLBW live births in California met the HP 2000 objective of 1.0 for the first four years of the ten year review period, but then failed to meet the objective for the last seven years. San Bernardino County's percentage of VLBW live births was higher than the State's ten of the eleven years, and was higher during the last half of the review period than during the first half (Figure 14).

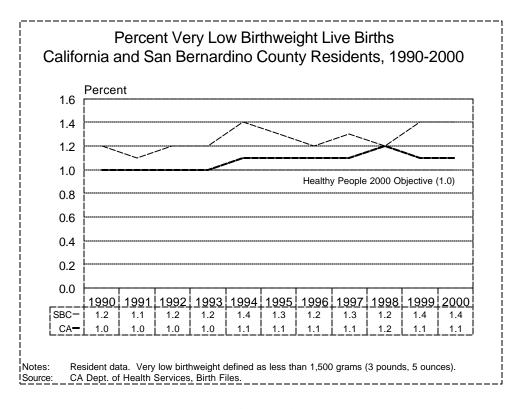


Figure 14

Very Low Birthweight by Race/Ethnicity of Mother

Healthy People 2000 Objective: Reduce very low birthweight among blacks to an

incidence of no more than 2.0 percent.

2000 Status: San Bernardino County 2.9%

California 2.7%

The incidence of VLBW among blacks in San Bernardino County demonstrated an erratic pattern over the review period, and never met the HP 2000 Objective (Figure 15). The 2000 percentage of 2.9 is identical to the 1990 percentage. The percentage for California was lower than that for the County in eight of the eleven review years.

Very low birthweight live births by race/ethnicity of mother for California and San Bernardino County are shown in Table 4. Among California Hispanics the percentage was fairly constant at 0.9% for the first four years and at 1.0% for the last seven years (Figure 16). California Hispanics met the HP2000 objective each year; this was not true for any other race/ethnic group nor for San Bernardino County overall. The County's rate fluctuated between 0.9% and 1.3% over the review period. The percentage of VLBW among San Bernardino County white mothers was higher than the State's each year (Figure 17), and increased by 20% over the review period.

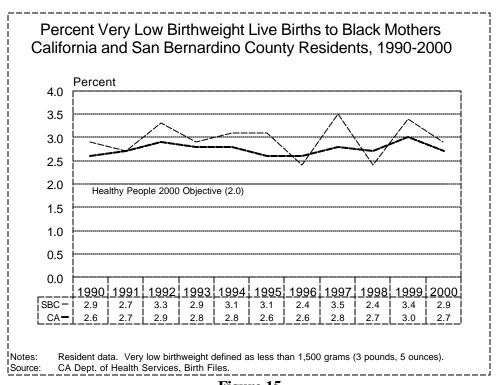


Figure 15

Table 4
Number and Percent of Very Low Birthweight Live Births by Race/Ethnicity of Mother
California and San Bernardino County Residents, 1990-2000

| Race/ | | | | | | Year | | | | | |
|---------------|----------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|
| Ethnicity | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| - | | | | NUM | IBER | | | | | | |
| California | | | | | | | | | | | |
| Total | 6,152 | 6,223 | 6,209 | 6,099 | 6,282 | 5,877 | 5,812 | 5,869 | 6,013 | 5,950 | 6,075 |
| Black | 1,275 | 1,252 | 1,304 | 1,240 | 1,166 | 1,017 | 949 | 998 | 939 | 1,018 | 923 |
| Hispanic | 2,204 | 2,321 | 2,378 | 2,465 | 2,584 | 2,522 | 2,581 | 2,526 | 2,601 | 2,569 | 2,655 |
| White | 2,136 | 2,114 | 1,954 | 1,883 | 1,940 | 1,752 | 1,670 | 1,714 | 1,774 | 1,675 | 1,738 |
| Other | 537 | 536 | 573 | 511 | 592 | 586 | 612 | 631 | 699 | 688 | 759 |
| San Bernardin | o County | | | | | | | | | | |
| Total | 387 | 369 | 402 | 401 | 434 | 396 | 359 | 377 | 341 | 391 | 387 |
| Black | 82 | 85 | 104 | 88 | 88 | 87 | 65 | 93 | 66 | 91 | 79 |
| Hispanic | 112 | 110 | 123 | 145 | 170 | 159 | 144 | 145 | 148 | 170 | 180 |
| White | 178 | 153 | 147 | 148 | 150 | 129 | 125 | 125 | 103 | 111 | 107 |
| Other | 15 | 21 | 28 | 20 | 26 | 21 | 25 | 14 | 24 | 19 | 21 |
| | | | | PER | CENT | | | | | | |
| California | | | | | | | | | | | |
| Total | 1.0% | 1.0% | 1.0% | 1.0% | 1.1% | 1.1% | 1.1% | 1.1% | 1.2% | 1.1% | 1.1% |
| Black | 2.6% | 2.7% | 2.9% | 2.8% | 2.8% | 2.6% | 2.6% | 2.8% | 2.7% | 3.0% | 2.7% |
| Hispanic | 0.9% | 0.9% | 0.9% | 0.9% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| White | 0.8% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | 0.9% | 1.0% | 1.0% | 1.0% | 1.0% |
| Other | 0.9% | 0.9% | 0.9% | 0.8% | 0.9% | 0.9% | 1.0% | 1.0% | 1.1% | 1.1% | 1.1% |
| San Bernardin | o County | | | | | | | | | | |
| Total | 1.2% | 1.1% | 1.2% | 1.2% | 1.4% | 1.3% | 1.2% | 1.3% | 1.2% | 1.4% | 1.4% |
| Black | 2.9% | 2.7% | 3.3% | 2.9% | 3.1% | 3.1% | 2.4% | 3.5% | 2.4% | 3.4% | 2.9% |
| Hispanic | 1.0% | 0.9% | 0.9% | 1.1% | 1.3% | 1.1% | 1.0% | 1.0% | 1.0% | 1.2% | 1.2% |
| White | 1.0% | 1.0% | 1.0% | 1.1% | 1.2% | 1.1% | 1.2% | 1.3% | 1.1% | 1.2% | 1.2% |
| Other | 0.9% | 1.2% | 1.5% | 1.1% | 1.0% | 1.2% | 1.5% | 0.9% | 1.6% | 1.2% | 1.2% |

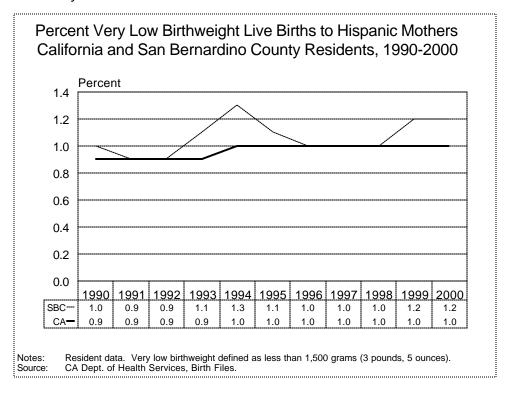


Figure 16

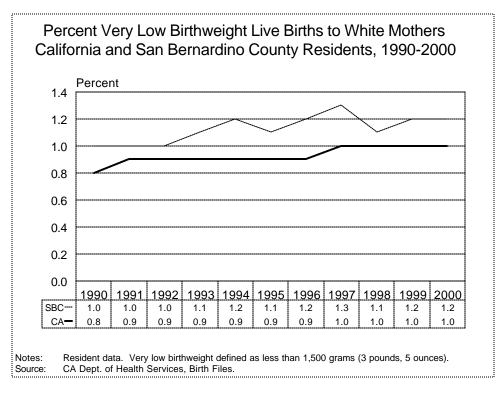


Figure 17

FIRST TRIMESTER PRENATAL CARE

| Healthy People 2000 Objective: | Increase to at least 90 percent the proportion of all pregnant women who receive prenatal care in the first trimester of pregnancy. | | | | |
|--------------------------------|---|-------|--|--|--|
| 2000 Status: | San Bernardino County 77.5% California | 83.1% | | | |

Both San Bernardino County and the State of California showed improvement in first trimester prenatal care over the review period, although neither achieved the HP 2000 Objective (Figure 18). The County's percentages were consistently lower than the State's. County and State percentages were respectively 15 and 16 percent higher in 2000 than 1990.

The proportion of mothers beginning prenatal care during the first trimester in 2000 is presented geographically in Figure 19. These maps show that mothers with the lowest rates of first trimester prenatal care onset live in areas ranging from the densely populated urban valley to remote desert and mountain communities. In the valley communities of Ontario, Fontana, Rialto, San Bernardino, and Colton, both public transportation and medical providers are readily available; further study is warranted to discover the reasons for not accessing prenatal care.

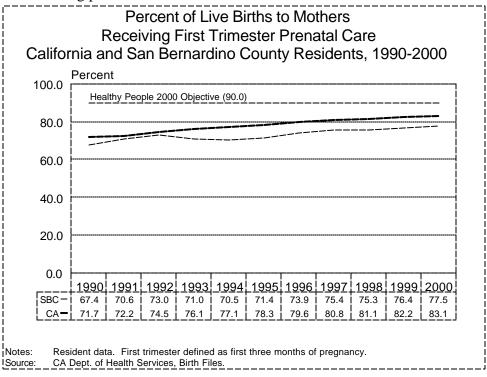


Figure 18

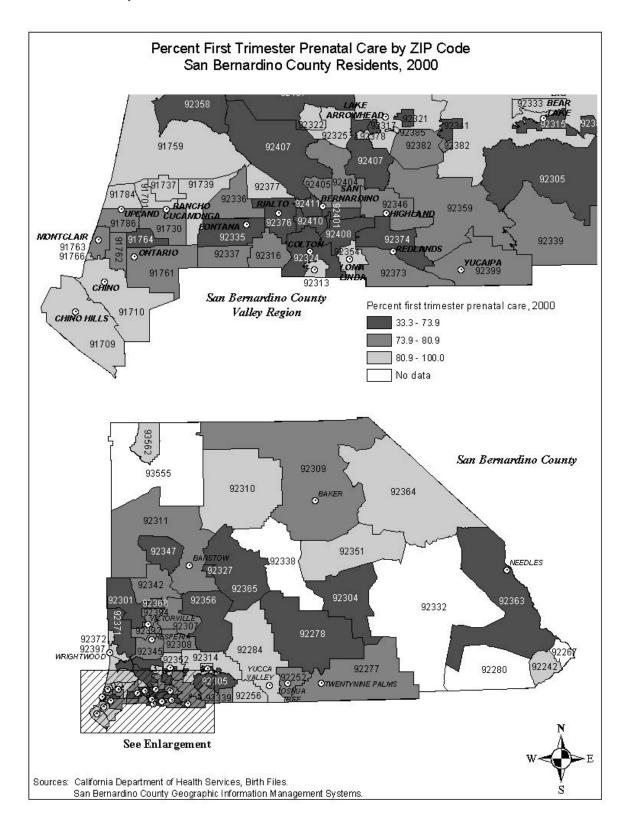


Figure 19

First Trimester Prenatal Care by Race/Ethnicity of Mother

| Healthy People 2000 Objective: | Increase to at least 90 perceive Hispanic women who receive trimester of pregnancy. | nt the proportion of black and e prenatal care in the first |
|--------------------------------|---|---|
| 2000 Status, Black Mothers: | San Bernardino County 74.9% California | 79.9% |
| 2000 Status, Hispanic Mothers: | San Bernardino County 74.6% California | 79.3% |

The percentage of San Bernardino County black mothers receiving first trimester prenatal care is slightly lower than California black mothers (Figure 20). Both groups have made progress towards approaching the HP 2000 Objective, with the both the County and the State improving 19 percent over the review period. Hispanic mothers in California and the County had slightly lower proportions receiving first trimester care compared to either black or white mothers. The County's proportions were lower than the State's for Hispanics in all years except 1991 (Figure 21).

The greatest difference between County and State figures were for white mothers (Figure 22). San Bernardino County percentages were consistently lower than the State's among whites. Among the three race/ethnicity groups studied, whites had the highest proportion of mothers receiving prenatal care in the first trimester of pregnancy, with California whites nearly achieving the HP 2000 objective (Table 5).

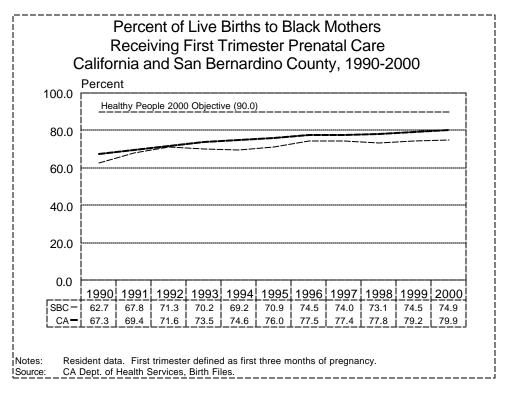


Figure 20

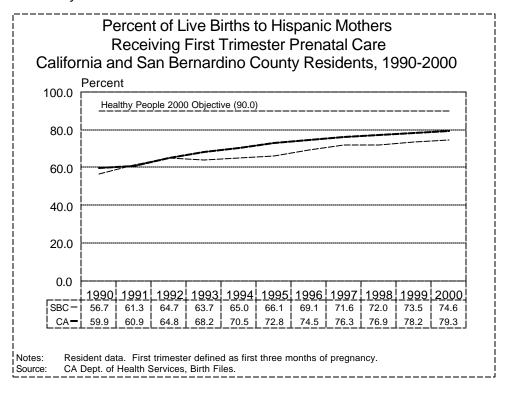


Figure 21

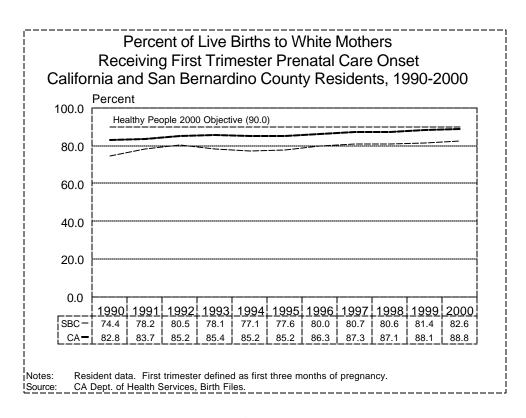


Figure 22

Table 5

Number and Percent of Live Births to Mothers Receiving First Trimester Prenatal Care
California and San Bernardino County Residents, 1990-2000

| Race/ | | | | | | Year | | | | | | |
|---------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| Ethnicity | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | |
| Ethnicity | 1990 | 1991 | 1992 | | MBER | 1990 | 1990 | 1991 | 1990 | 1999 | 2000 | |
| California | | | | | | | | | | | | |
| Total | 438.407 | 439.733 | 447.434 | 445.079 | 437 OQ4 | 431,572 | 128 724 | 123 640 | 122 866 | 426 020 | 111 712 | |
| Black | 32,376 | 32,445 | 32.604 | 32,216 | 30,930 | 29,764 | 28,711 | 27.834 | 27.398 | 27,030 | 26,973 | |
| Hispanic | 147.064 | | 170.756 | 178.797 | 181.384 | 184.754 | 189.779 | 189.830 | 190.523 | 195.020 | 204.435 | |
| White | 212,466 | - , | 194,539 | 184,399 | 174,351 | 167,211 | 159,868 | 154,741 | 153,765 | 151,573 | 151,921 | |
| Other | 46,501 | 47,259 | 49,535 | 49,667 | 50,429 | 49,843 | 50,366 | 51,235 | 51,180 | 52,397 | 58,383 | |
| | , | | 49,000 | 49,007 | 30,429 | 49,043 | 30,300 | 31,233 | 31,100 | 32,391 | 30,303 | |
| San Bernardi | • | | | | | | | | | | | |
| Total | 22,506 | 23,318 | 23,971 | 22,903 | 22,186 | 21,492 | 21,707 | 21,339 | 21,256 | 21,704 | 22,218 | |
| Black | 1,794 | 2,103 | 2,244 | 2,136 | 1,992 | 1,980 | 1,992 | 1,966 | 2,006 | 2,004 | 2,006 | |
| Hispanic | 6,247 | 7,688 | 8,490 | 8,754 | 8,807 | 9,257 | 9,891 | 10,195 | 10,323 | 10,751 | 11,257 | |
| White | 13,337 | 12,240 | 11,864 | 10,665 | 9,614 | 8,942 | 8,550 | 7,947 | 7,749 | 7,752 | 7,587 | |
| Other | 1,128 | 1,287 | 1,373 | 1,348 | 1,773 | 1,313 | 1,274 | 1,231 | 1,178 | 1,197 | 1,368 | |
| | | | | PE | RCENT | | | | | | | |
| California | | | | | | | | | | | | |
| Total | 71.7% | 72.2% | 74.5% | 76.1% | 77.1% | 78.3% | 79.6% | 80.8% | 81.1% | 82.2% | 83.1% | |
| Black | 67.3% | 69.4% | 71.6% | 73.5% | 74.6% | 76.0% | 77.5% | 77.4% | 77.8% | 79.2% | 79.9% | |
| Hispanic | 59.9% | 60.9% | 64.8% | 68.2% | 70.5% | 72.8% | 74.5% | 76.3% | 76.9% | 78.2% | 79.3% | |
| White | 82.8% | 83.7% | 85.2% | 85.4% | 85.2% | 85.2% | 86.3% | 87.3% | 87.1% | 88.1% | 88.8% | |
| Other | 75.4% | 76.2% | 77.9% | 79.2% | 79.6% | 80.3% | 81.7% | 82.5% | 83.0% | 83.7% | 85.3% | |
| San Bernardii | no County | / | | | | | | | | | | |
| Total | 67.4% | 70.6% | 73.0% | 71.0% | 70.5% | 71.4% | 73.9% | 75.4% | 75.3% | 76.4% | 77.5% | |
| Black | 62.7% | 67.8% | 71.3% | 70.2% | 69.2% | 70.9% | 74.5% | 74.0% | 73.1% | 74.5% | 74.9% | |
| Hispanic | 56.7% | 61.3% | 64.7% | 63.7% | 65.0% | 66.1% | 69.1% | 71.6% | 72.0% | 73.5% | 74.6% | |
| White | 74.4% | 78.2% | 80.5% | 78.1% | 77.1% | 77.6% | 80.0% | 80.7% | 80.6% | 81.4% | 82.6% | |
| Other | 71.3% | 75.0% | 75.5% | 75.1% | 69.2% | 73.0% | 76.1% | 78.4% | 76.1% | 76.8% | 80.7% | |
| | | | 3.07.0 | | | 3.0,0 | | | 31 | 3.0.0 | | |

PAY SOURCE FOR PRENATAL CARE

Table 6 shows that over the past decade, a slightly higher percentage of San Bernardino County resident live births have prenatal care paid by Medi-Cal compared to California overall. In 2000, prenatal care for 43% of San Bernardino County's births was paid by Medi-Cal, compared to 40% for California.

Table 6
Live Births by Pay Source for Prenatal Care
California and San Bernardino County Residents, 1990-2000

| | Mother's Residence | | | | | | | | | | |
|------|--------------------|--------|---------|---------|------------|-----------|--------|------|--|--|--|
| | | Califo | ornia | San | Bernar | dino Coun | ty | | | | |
| | | | Pay Sou | rce for | Prenatal C | are | | | | | |
| | Medi-C | Cal | Othe | r | Medi- | Cal | Othe | er | | | |
| | Number | % | Number | % | Number | % | Number | % | | | |
| 1990 | 201,903 | 33.0 | 409,763 | 67.0 | 12,371 | 37.0 | 21,022 | 63.0 | | | |
| 1991 | 240,260 | 39.4 | 368,968 | 60.6 | 13,736 | 41.6 | 19,285 | 58.4 | | | |
| 1992 | 261,265 | 43.5 | 339,573 | 56.5 | 14,667 | 44.7 | 18,154 | 55.3 | | | |
| 1993 | 266,948 | 45.7 | 317,535 | 54.3 | 15,495 | 48.0 | 16,754 | 52.0 | | | |
| 1994 | 265,017 | 46.7 | 302,017 | 53.3 | 15,595 | 49.6 | 15,862 | 50.4 | | | |
| 1995 | 254,782 | 46.2 | 296,444 | 53.8 | 14,544 | 48.3 | 15,565 | 51.7 | | | |
| 1996 | 245,939 | 45.7 | 292,689 | 54.3 | 14,249 | 48.5 | 15,110 | 51.5 | | | |
| 1997 | 222,445 | 42.4 | 301,729 | 57.6 | 12,842 | 45.3 | 15,477 | 54.7 | | | |
| 1998 | 207,824 | 39.9 | 313,441 | 60.1 | 12,233 | 43.3 | 16,012 | 56.7 | | | |
| 1999 | 204,919 | 39.6 | 313,154 | 60.4 | 12,380 | 43.6 | 16,017 | 56.4 | | | |
| 2000 | 211,290 | 39.8 | 319,995 | 60.2 | 12,433 | 43.4 | 16,224 | 56.6 | | | |

METHOD OF DELIVERY

Table 7 presents the method of delivery of live births among California and San Bernardino County residents from 1990 through 2000. The percentage of births delivered by cesarean section has increased by about one percentage point in both jurisdictions. The proportion of cesarean births was slightly higher for San Bernardino County residents in all years of the review period.

Table 7
Live Births by Method of Delivery
California and San Bernardino County Residents, 1990-2000

| | | ornia | San Bernardino County | | | | | | | |
|------|---------------------|-------|-----------------------------|------|---------------------|------|-----------------------------|------|--|--|
| | Method of Delivery | | | | | | | | | |
| | Cesarean Section | | Vaginal Delivery or Unknown | | Cesarean Section | | Vaginal Delivery or Unknown | | | |
| | Number | % | Number | % | Number | % | Number | % | | |
| 1990 | 136,095 | 22.2 | 475,571 | 77.8 | 7,547 | 22.6 | 25,846 | 77.4 | | |
| 1991 | 135,618 | 22.3 | 473,610 | 77.7 | 7,571 | 22.9 | 25,450 | 77.1 | | |
| 1992 | 129,546 | 21.6 | 471,292 | 78.4 | 7,190 | 21.9 | 25,631 | 78.1 | | |
| 1993 | 124,559 | 21.3 | 459,924 | 78.7 | 7,178 | 22.3 | 25,071 | 77.7 | | |
| 1994 | 117,816 | 20.8 | 449,218 | 79.2 | 6,818 | 21.7 | 24,639 | 78.3 | | |
| 1995 | 113,623 | 20.6 | 437,603 | 79.4 | 6,471 | 21.5 | 23,638 | 78.5 | | |
| 1996 | 110,807 | 20.6 | 427,821 | 79.4 | 6,305 | 21.5 | 23,054 | 78.5 | | |
| 1997 | 109,995 | 21.0 | 414,179 | 79.0 | 6,245 | 22.1 | 22,074 | 77.9 | | |
| 1998 | 113,114 | 21.7 | 408,151 | 78.3 | 6,306 | 22.3 | 21,939 | 77.7 | | |
| 1999 | 117,568 | 22.7 | 400,505 | 77.3 | 6,632 | 23.4 | 21,765 | 76.6 | | |
| 2000 | 124,467 | 23.4 | 406,818 | 76.6 | 6,722 | 23.5 | 21,935 | 76.5 | | |

MOTHER'S PLACE OF BIRTH

Over the past decade, a smaller percentage of San Bernardino County resident live births were to foreign born mothers compared to California, as shown in Table 8. In 2000, 33% of San Bernardino County mothers giving birth were not born in the United States, compared to 46% of California mothers.

Table 8
Live Births by Mother's Place of Birth
California and San Bernardino County Residents, 1990-2000

| | Mother's Residence | | | | | | | | | | | |
|------|-------------------------|------|---------------|------|-----------------------|------|---------------|------|--|--|--|--|
| | California | | | | San Bernardino County | | | | | | | |
| | Mother's Place of Birth | | | | | | | | | | | |
| | Other | | United States | | Other | | United States | | | | | |
| | Number | % | Number | % | Number | % | Number | % | | | | |
| 1990 | 250,694 | 41.0 | 360,972 | 59.0 | 8,223 | 24.6 | 25,170 | 75.4 | | | | |
| 1991 | 261,443 | 42.9 | 347,785 | 57.1 | 8,972 | 27.2 | 24,049 | 72.8 | | | | |
| 1992 | 267,096 | 44.5 | 333,742 | 55.5 | 9,630 | 29.3 | 23,191 | 70.7 | | | | |
| 1993 | 261,979 | 44.8 | 322,504 | 55.2 | 9,757 | 30.3 | 22,492 | 69.7 | | | | |
| 1994 | 252,240 | 44.5 | 314,794 | 55.5 | 9,689 | 30.8 | 21,768 | 69.2 | | | | |
| 1995 | 245,175 | 44.5 | 306,051 | 55.5 | 9,541 | 31.7 | 20,568 | 68.3 | | | | |
| 1996 | 243,944 | 45.3 | 294,684 | 54.7 | 9,540 | 32.5 | 19,819 | 67.5 | | | | |
| 1997 | 235,456 | 44.9 | 288,718 | 55.1 | 9,176 | 32.4 | 19,143 | 67.6 | | | | |
| 1998 | 230,189 | 44.2 | 291,076 | 55.8 | 9,000 | 31.9 | 19,245 | 68.1 | | | | |
| 1999 | 231,701 | 44.7 | 286,372 | 55.3 | 9,146 | 32.2 | 19,251 | 67.8 | | | | |
| 2000 | 243,113 | 45.8 | 288,172 | 54.2 | 9,397 | 32.8 | 19,260 | 67.2 | | | | |

MOTHER'S EDUCATION

During the first half of the 1990's, San Bernardino County resident mothers were more likely to have twelve or more years of education than residents of California, as shown in Table 9. During the 1990's, the percentage of San Bernardino County mothers with a high school education decreased, then increased in the latter half of the decade. In 2000, 68% of San Bernardino County's mothers had twelve or more years of education, compared to 69% of California's mothers. The proportion of mothers with some college education (sixteen or more years) has consistently been lower in San Bernardino County than in California.

Table 9
Live Births by Mother's Education
California and San Bernardino County Residents, 1990-2000

| | | | | | N | lother's | s Residence | е | | | | | |
|------|------------------|------|------------------|------|---------|----------|------------------|--------|-------------|---------|--------|------|--|
| | | | Califor | nia | | | | Sa | an Bernardi | no Cour | nty | | |
| | | | | | N | /lother | ther's Education | | | | | | |
| | 12 years more | | 16 years more | | Othe | r | 12 years o | r more | 16 years o | r more | Othe | r | |
| | Number | | | | | | | % | Number | % | Number | % | |
| 1990 | 400,463 | 65.5 | 92,100 | 15.1 | 211,203 | 34.5 | 23,322 | 69.8 | 3,344 | 10.0 | 10,071 | 30.2 | |
| 1991 | 392,799 | 64.5 | 92,703 | 15.2 | 216,429 | 35.5 | 22,450 | 68.0 | 3,272 | 9.9 | 10,571 | 32.0 | |
| 1992 | 385,732 | 64.2 | 93,687 | 15.6 | 215,106 | 35.8 | 21,998 | 67.0 | 3,256 | 9.9 | 10,823 | 33.0 | |
| 1993 | 376,002 | 64.3 | 92,540 | 15.8 | 208,481 | 35.7 | 21,030 | 65.2 | 3,130 | 9.7 | 11,219 | 34.8 | |
| 1994 | 367,412 | 64.8 | 93,039 | 16.4 | 199,622 | 35.2 | 20,138 | 64.0 | 3,153 | 10.0 | 11,319 | 36.0 | |
| 1995 | 360,476 | 65.4 | 93,434 | 17.0 | 190,750 | 34.6 | 19,623 | 65.2 | 3,139 | 10.4 | 10,486 | 34.8 | |
| 1996 | 353,697 | 65.7 | 94,196 | 17.5 | 184,931 | 34.3 | 18,974 | 64.6 | 3,044 | 10.4 | 10,385 | 35.4 | |
| 1997 | 350,458 | 66.9 | 97,051 | 18.5 | 173,716 | 33.1 | 18,519 | 65.4 | 2,940 | 10.4 | 9,800 | 34.6 | |
| 1998 | 353,355 | 67.8 | 100,260 | 19.2 | 167,910 | 32.2 | 18,727 | 66.3 | 3,026 | 10.7 | 9,518 | 33.7 | |
| 1999 | 355,262 | 68.6 | 104,331 | 20.1 | 162,811 | 31.4 | 19,264 | 67.8 | 3,374 | 11.9 | 9,133 | 32.2 | |
| 2000 | 367,866 | 69.2 | 112,664 | 21.2 | 163,419 | 30.8 | 19,535 | 68.2 | 3,374 | 11.8 | 9,122 | 31.8 | |

Source: California Department of Health Services, Birth Files.

MOTHER'S MARITAL STATUS

The proportion of newborns born to unmarried mothers was higher among San Bernardino County residents than among California residents in every year of the review period, and the difference appeared to increase in the latter half of the decade. In 2000, 38% of San Bernardino County's live births were to unmarried mothers, compared to 33% of California's.

Table 10
Live Births by Mother's Marital Status
California and San Bernardino County Residents, 1990-2000

| | | | | | Mo | ther's R | esidence | | | | | |
|------|---------------------------------|--------|---------|-----|---------|----------|-------------|------|------------|-------|--------|-------|
| | | | Califor | nia | | | | Sa | n Bernardi | no Co | unty | |
| | | | | | Moth | er's Mar | ital Status | | | | | |
| | Marrie | d | Unkno | wn | Unmarı | ried | Marrie | ed | Unkno | wn | Unmai | rried |
| | Number | Number | Number | % | Number | % | Number | % | Number | % | | |
| 1990 | 419,377 | 68.6 | 0 | 0 | 192,289 | 31.4 | 22,651 | 67.8 | 0 | 0 | 10,742 | 32.2 |
| 1991 | 406,173 | 66.7 | 0 | 0 | 203,055 | 33.3 | 21,681 | 65.7 | 0 | 0 | 11,340 | 34.3 |
| 1992 | 395,509 | 65.8 | 0 | 0 | 205,329 | 34.2 | 21,199 | 64.6 | 0 | 0 | 11,622 | 35.4 |
| 1993 | 379,138 | 64.9 | 0 | 0 | 205,345 | 35.1 | 20,015 | 62.1 | 0 | 0 | 12,234 | 37.9 |
| 1994 | 365,278 | 64.4 | 0 | 0 | 201,756 | 35.6 | 19,095 | 60.7 | 0 | 0 | 12,362 | 39.3 |
| 1995 | 374,474 | 67.9 | 0 | 0 | 176,752 | 32.1 | 19,101 | 63.4 | 0 | 0 | 11,008 | 36.6 |
| 1996 | 369,689 | 68.6 | 0 | 0 | 168,939 | 31.4 | 18,668 | 63.6 | 0 | 0 | 10,691 | 36.4 |
| 1997 | 340,086 | 64.9 | 16,712 | 3.2 | 167,376 | 31.9 | 16,984 | 60.0 | 232 | 0.8 | 11,103 | 39.2 |
| 1998 | 350,201 67.2 457 0.1 170,607 3 | | | | | | 17,087 | 60.5 | 18 | 0.1 | 11,140 | 39.4 |
| 1999 | 347,603 67.1 336 0.1 170,134 32 | | | | | | 17,369 | 61.2 | 10 | 0.0 | 11,018 | 38.8 |
| 2000 | 357,336 | 67.3 | 150 | 0.0 | 173,799 | 32.7 | 17,670 | 61.7 | 8 | 0.0 | 10,979 | 38.3 |

Note: Prior to 1997, mother's marital status was determined by an inferential methodology based primarily on comparison of the surnames of the mother, father, child, and informant as listed on

the birth certificate. Beginning in 1997, Assembly Bill 2680 required marital status to be collected

electronically through the automated vital statistics system.

Source: California Department of Health Services, Birth Files.

FETAL DEATHS

Healthy People 2000 Objective: Reduce the fetal death rate (20 or more weeks gestation)

to no more than 5 per 1,000 live births plus fetal deaths.

2000 Status: San Bernardino County 5.5

California 5.7

Fetal deaths must be reported to the local registrar via a fetal death certificate if the fetus was of 20 weeks or more gestational age. The fetal death rate is defined as the number of fetal deaths per 1,000 live births plus fetal deaths. The number of fetal deaths and fetal death rates for California and San Bernardino County are shown in Table 11 for 1990 through 2000.

The fetal death rates for San Bernardino County and California were similar over most of the eleven year review period, as shown in Figure 23. The County rate was 23 percent lower in 2000 than 1990, while the State rate decreased 12 percent. San Bernardino County met the HP 2000 objective for the single year 1999, while the State has not yet achieved the objective.

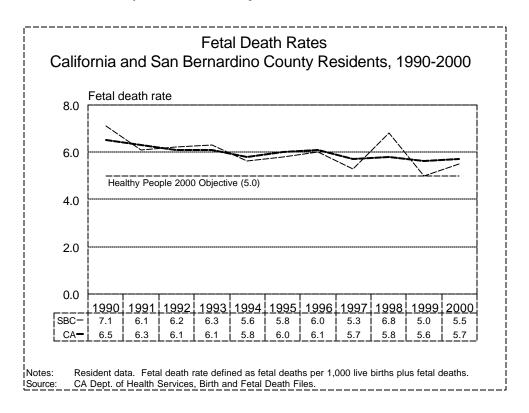


Figure 23

Table 11
Fetal Deaths and Fetal Death Rates
California and San Bernardino County Residents, 1990-2000

| | Ca | llifornia | San Bern | ardino County |
|------|--------------|------------------|--------------|------------------|
| Year | Fetal Deaths | Fetal Death Rate | Fetal Deaths | Fetal Death Rate |
| | | | | |
| 1990 | 3,989 | 6.5 | 233 | 6.9 |
| 1991 | 3,834 | 6.3 | 196 | 5.9 |
| 1992 | 3,704 | 6.1 | 201 | 6.1 |
| 1993 | 3,574 | 6.1 | 200 | 6.2 |
| 1994 | 3,299 | 5.8 | 172 | 5.4 |
| 1995 | 3,355 | 6.0 | 170 | 5.6 |
| 1996 | 3,330 | 6.1 | 172 | 5.8 |
| 1997 | 2,996 | 5.7 | 142 | 5.0 |
| 1998 | 3,053 | 5.8 | 183 | 6.4 |
| 1999 | 2,927 | 5.6 | 140 | 4.9 |
| 2000 | 3,046 | 5.7 | 153 | 5.3 |

Note: Fetal death rate defined as fetal deaths per 1,000 live births plus fetal deaths. Source: California Department of Health Services, Birth and Fetal Death Files.

INFANT MORTALITY

In this section of the report infant mortality rates are reviewed by age of infant (i.e. neonatal and post-neonatal) and race/ethnicity of mother, for the period 1990 to 1999. An infant death is a death occurring during the first year of life. A neonatal death is a death occurring during the first 27 days of life, and a postneonatal death is a death occurring between the 28th day of life and the first birthday. Infant mortality rate is defined as the number of infant deaths per 1,000 live births.

For this report infant mortality rates were derived from CA DHS birth cohort files, which consist of linked birth and death records. The cohort files contain all information found on the birth certificate, including race/ethnicity of the mother, as well as whether the infant survived to age one year and at what age death occurred. The CA DHS updates the cohort files as new information is obtained, so that counts derived from the cohort files may not exactly match counts from other sources including CA DHS birth files. The CA DHS did not produce a birth cohort file for 1998.

In the following pages, infant deaths and infant mortality rates are shown in Table 12 (overall infant mortality), Table 13 (neonatal mortality), and Table 14 (postneonatal mortality). Counts and rates for California and San Bernardino County are shown in each table with comparison among race/ethnic groups. Figure 24 compares overall infant mortality rates for San Bernardino County and California, and Figures 28 and 32 present neonatal and postneonatal rates for the County and the State. Figures 25, 29, and 33 present overall, neonatal, and postneonatal infant mortality rate for infants born to Black mothers; Figures 26, 30, and 34 for infants born to Hispanic mothers; and Figures 27, 31, and 35 for infants born to White mothers.

Infant Mortality

Healthy People 2000 Objective: Reduce the infant mortality rate to no more than

7.0 per1,000 live births.

1999 Status: San Bernardino County 7.1

California 5.5

San Bernardino County's infant mortality rate was higher than the State's each year of the ten year review period, as shown in Figure 24. California's rate decreased from 7.9 infant deaths per 1,000 live births in 1990 to 5.5 in 1999, a 30 percent decrease. Over the same period, San Bernardino County's rate decreased 29 percent, from 10.0 to 7.1.

In 1992 the State achieved the Healthy People 2000 Objective, and the rate for the State has remained below the objective in subsequent years. The ten year trend for both the State and San Bernardino County is clearly downward, but the County has yet to achieve the objective.

San Bernardino County's three-year (1996-1997, 1999) infant mortality rate is displayed geographically by ZIP code in Figure 25. ZIP codes with the highest infant mortality rate were located in the valley communities of San Bernardino, Colton, and Grand Terrace; and the desert communities of Apple Valley, Victorville, Barstow, Yucca Valley, and Twentynine Palms.

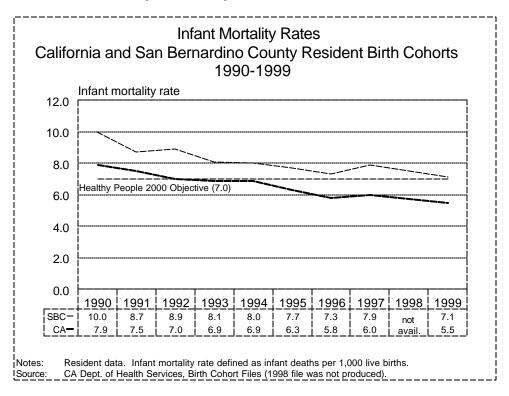


Figure 24

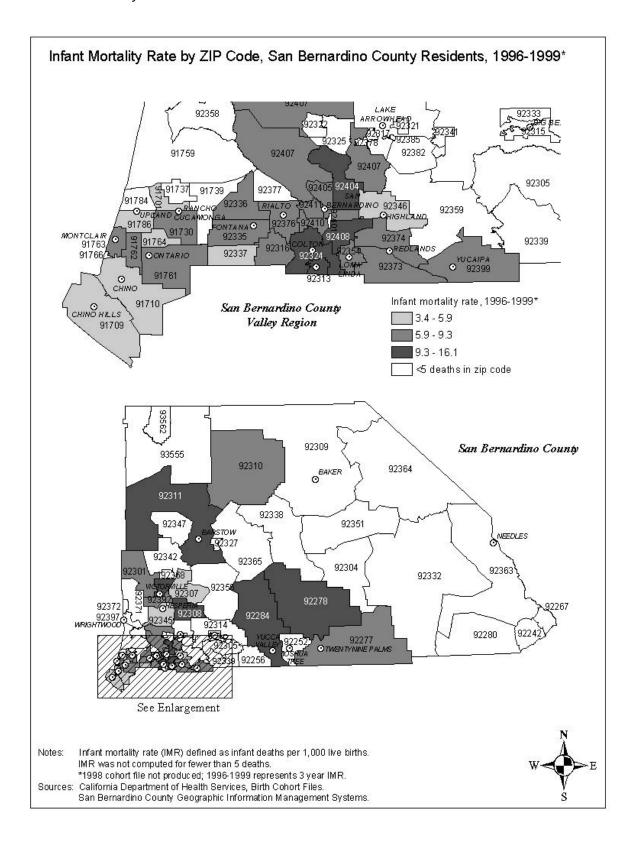


Figure 25

Infant Mortality by Race/Ethnicity of Mother

Healthy People 2000 Objective: Reduce the infant mortality rate among blacks to

no more than 11 per 1,000 live births.

1999 Status: San Bernardino County 15.6

California 12.6

Apart from the single year exception discussed below, the Healthy People 2000 Objective for black infant mortality rate has not been met by either California or San Bernardino County based on a review of the data presented in Table 12. San Bernardino County's black infant mortality rate decreased 17 percent from 1990 to 1999, while the State's rate decreased 22 percent. Relatively small numbers of events in the County result in an erratic pattern rather than a clear trend, as shown in Figure 26.

San Bernardino County's black infant mortality rate met the HP 2000 objective in the single year 1996. Of the 1996 birth cohort, 27 San Bernardino County resident black infants died, compared to an average of 49 black infant deaths per year in the rest of the review period. No explanation for the large decrease in black infant deaths in this single year was found during a recent investigation.

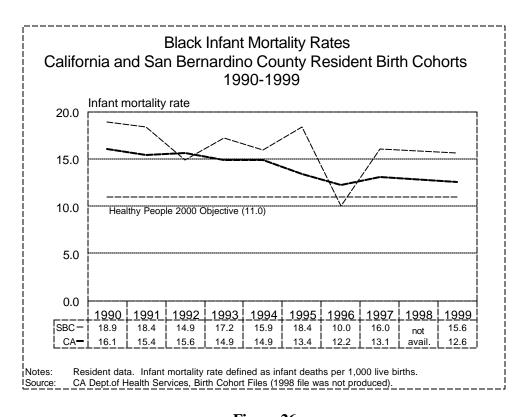


Figure 26

Both the County and State infant mortality rate among Hispanics decreased 29 percent from 1990 to 1999 (Figure 27). The County infant mortality rate among Hispanics exceeded the State rate in all but one of these years. From 1990 to 1999, the rate among whites decreased 36 and 29 percent for California and San Bernardino County, respectively (Figure 28). No HP2000 objectives were established for white or Hispanic infant mortality rates.

Table 12
Infant Deaths and Infant Mortality Rates by Race/Ethnicity of Mother
California and San Bernardino County Residents, 1990-1999

| Year | | Inf | ant Deaths | <u> </u> | | | Infant I | Mortality R | ate | |
|------------|-----------|-----|------------|----------|-----------|-------|----------|-------------|-------|-------|
| | Total | | Hispanic | White | Other | Total | | Hispanic | White | Other |
| California | | | | | | | | | | |
| 1990 | 4,859 | 777 | 1,797 | 1,857 | 428 | 7.9 | 16.1 | 7.3 | 7.2 | 6.9 |
| 1991 | 4,555 | 723 | 1,822 | 1,620 | 390 | 7.5 | 15.4 | 7.1 | 6.7 | 6.3 |
| 1992 | 4,235 | 709 | 1,703 | 1,414 | 409 | 7.0 | 15.6 | 6.5 | 6.2 | 6.4 |
| 1993 | 4,041 | 661 | 1,667 | 1,331 | 382 | 6.9 | 14.9 | 6.3 | 6.1 | 6.1 |
| 1994 | 3,960 | 626 | 1,655 | 1,312 | 367 | 6.9 | 14.9 | 6.4 | 6.4 | 5.8 |
| 1995 | 3,521 | 530 | 1,531 | 1,117 | 343 | 6.3 | 13.4 | 6.0 | 5.7 | 5.5 |
| 1996 | 3,167 | 458 | 1,407 | 974 | 328 | 5.8 | 12.2 | 5.5 | 5.2 | 5.3 |
| 1997 | 3,152 | 477 | 1,412 | 947 | 316 | 6.0 | 13.1 | 5.6 | 5.3 | 5.1 |
| 1998 | | | | | not avail | able | | | | |
| 1999 | 2,842 | 430 | 1,301 | 794 | 317 | 5.5 | 12.6 | 5.2 | 4.6 | 5.1 |
| San Bernar | dino Coun | ity | | | | | | | | |
| 1990 | 333 | 54 | 93 | 164 | 22 | 10.0 | 18.9 | 8.4 | 9.1 | 13.9 |
| 1991 | 288 | 57 | 97 | 119 | 15 | 8.7 | 18.4 | 7.7 | 7.6 | 8.7 |
| 1992 | 291 | 47 | 89 | 121 | 34 | 8.9 | 14.9 | 6.8 | 8.2 | 18.7 |
| 1993 | 262 | 53 | 98 | 96 | 15 | 8.1 | 17.2 | 7.1 | 7.0 | 8.3 |
| 1994 | 253 | 46 | 94 | 94 | 19 | 8.0 | 15.9 | 6.9 | 7.5 | 7.4 |
| 1995 | 233 | 52 | 88 | 81 | 12 | 7.7 | 18.4 | 6.3 | 7.0 | 6.6 |
| 1996 | 217 | 27 | 107 | 69 | 14 | 7.3 | 10.0 | 7.4 | 6.4 | 8.3 |
| 1997 | 224 | 43 | 84 | 85 | 12 | 7.9 | 16.0 | 5.9 | 8.6 | 7.6 |
| 1998 | | | | | not avail | able | | | | |
| 1999 | 203 | 42 | 88 | 62 | 11 | 7.1 | 15.6 | 6.0 | 6.5 | 7.1 |

Note: Rates calculated for fewer than 20 events, shown in *italics*, are unreliable and should be interpreted with caution. Source: California Department of Health Services, Birth Cohort Files (1998 file was not produced).

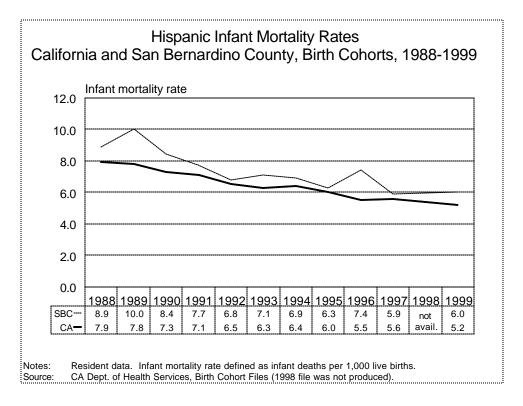


Figure 27

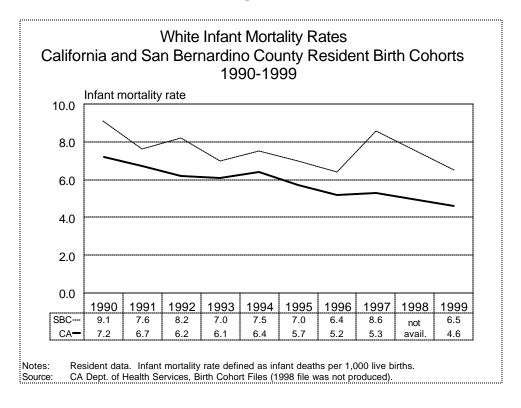


Figure 28

Neonatal Mortality

Healthy People 2000 Objective: Reduce the neonatal mortality rate to no more

than 4.5 per1,000 live births.

1999 Status: San Bernardino County 4.9

California 3.7

Both the State and the County experienced downward trends in neonatal mortality between 1990 and 1999 (Figure 29). During the ten-year review period California's and San Bernardino County's neonatal mortality rates dropped 24 and 18 percent, respectively. San Bernardino County's rate was higher than the State rate in each of the years reviewed, and the County has yet to achieve the Healthy People 2000 Objective. The State rate has met the objective every year since 1992.

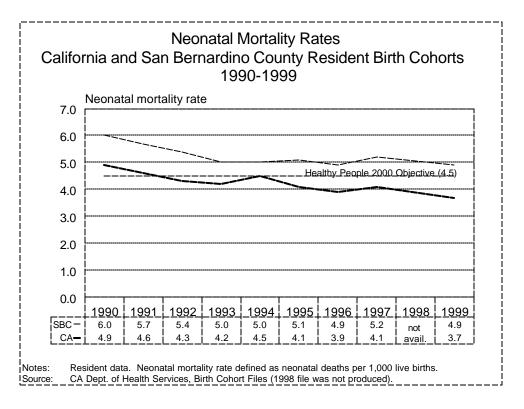


Figure 29

Neonatal Mortality by Race/Ethnicity of Mother

Healthy People 2000 Objective: Reduce the black neonatal mortality rate to no

more than 7.0 per1,000 live births.

1999 Status: San Bernardino County 9.7

California 8.0

The relatively small number of neonatal deaths at the County level was reflected in the variability of the rates for all three race/ethnicity groups (Figures 30 through 32). The highest black neonatal mortality rate for San Bernardino County during the review period was in 1995 (Figure 30). No trend is obvious for the County black rates. The State rate, however, appears to be declining.

The Hispanic neonatal infant mortality rate for San Bernardino County and California is presented in Figure 31. The State clearly experienced a downward trend over the review period, while the County's rates vary too much to draw any conclusion regarding a trend. The white neonatal rates for the County and State are shown in Figure 32. Again, a downward trend in the rate is obvious for California but not for San Bernardino County. Neonatal deaths and mortality rates by race/ethnicity are shown in Table 13. No HP2000 objectives were established for white or Hispanic neonatal infant mortality rates.

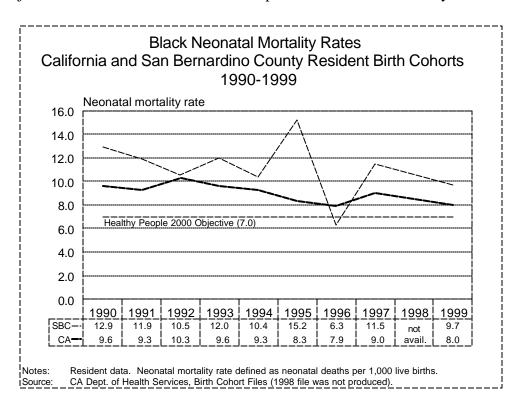


Figure 30

Table 13
Neonatal Deaths and Neonatal Mortality Rates by Race/Ethnicity of Mother
California and San Bernardino County Residents, 1990-1999

| Year | | Nec | onatal Death | ns | | | Neona | tal Mortality | Rate | |
|-------------|-----------|-------|--------------|-------|---------|---------|-------|---------------|-------|-------|
| | Total | Black | Hispanic | White | Other | Total | Black | Hispanic | White | Other |
| California | | | | | | | | | | |
| 1990 | 2,989 | 465 | 1,146 | 1,131 | 247 | 4.9 | 9.6 | 4.7 | 4.4 | 4.0 |
| 1991 | 2,817 | 434 | 1,164 | 987 | 232 | 4.6 | 9.3 | 4.5 | 4.1 | 3.7 |
| 1992 | 2,603 | 469 | 1,060 | 829 | 245 | 4.3 | 10.3 | 4.0 | 3.6 | 3.9 |
| 1993 | 2,493 | 425 | 1,056 | 780 | 232 | 4.2 | 9.6 | 4.0 | 3.6 | 3.7 |
| 1994 | 2,554 | 392 | 1,119 | 820 | 223 | 4.5 | 9.3 | 4.3 | 4.0 | 3.5 |
| 1995 | 2,254 | 329 | 1,011 | 688 | 226 | 4.1 | 8.3 | 4.0 | 3.5 | 3.6 |
| 1996 | 2,108 | 295 | 946 | 640 | 227 | 3.9 | 7.9 | 3.7 | 3.4 | 3.7 |
| 1997 | 2,140 | 327 | 980 | 634 | 199 | 4.1 | 9.0 | 3.9 | 3.6 | 3.2 |
| 1998 | | | | | not ava | ailable | | | | _ |
| 1999 | 1,929 | 274 | 901 | 543 | 211 | 3.7 | 8.0 | 3.6 | 3.2 | 3.4 |
| San Bernare | dino Coun | ty | | | | | | | | |
| 1990 | 202 | 37 | 57 | 95 | 13 | 6.0 | 12.9 | 5.2 | 5.3 | 8.2 |
| 1991 | 188 | 37 | 62 | 76 | 13 | 5.7 | 11.9 | 4.9 | 4.9 | 7.6 |
| 1992 | 176 | 33 | 53 | 64 | 26 | 5.4 | 10.5 | 4.0 | 4.3 | 14.3 |
| 1993 | 163 | 37 | 59 | 55 | 12 | 5.0 | 12.0 | 4.3 | 4.0 | 6.7 |
| 1994 | 158 | 30 | 57 | 57 | 14 | 5.0 | 10.4 | 4.2 | 4.5 | 5.4 |
| 1995 | 154 | 43 | 56 | 47 | 8 | 5.1 | 15.2 | 4.0 | 4.1 | 4.4 |
| 1996 | 145 | 17 | 78 | 41 | 9 | 4.9 | 6.3 | 5.4 | 3.8 | 5.3 |
| 1997 | 149 | 31 | 57 | 54 | 7 | 5.2 | 11.5 | 4.0 | 5.5 | 4.4 |
| 1998 | | · | | | not ava | ailable | | | | |
| 1999 | 140 | 26 | 63 | 46 | 5 | 4.9 | 9.7 | 4.3 | 4.8 | 3.2 |

Note: Rates calculated for fewer than 20 events, shown in *italics*, are unreliable and should be interpreted with caution. Source: California Department of Health Services, Birth Cohort Files (1998 file was not produced).

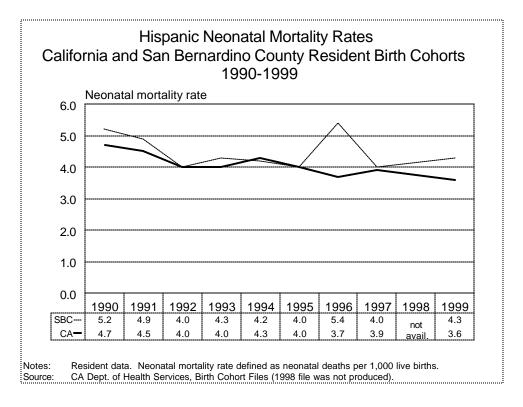


Figure 31

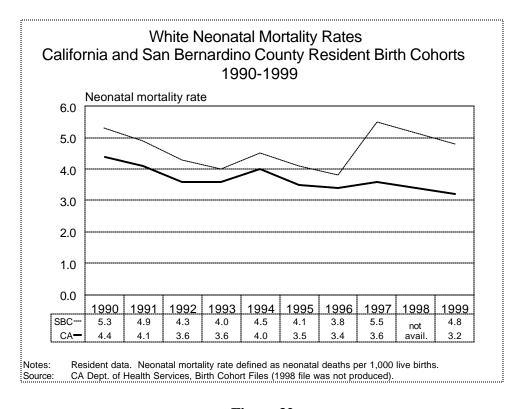


Figure 32

Neonatal to Fetal Death Ratios

The hypothesis that nonviable live births are more likely to be reported as live births and subsequent neonatal infant deaths in San Bernardino County than in the remainder of California is currently under investigation. Although a birth event should be recorded as a live birth if the infant shows any sign of life, in practice some clearly nonviable births (e.g. extremely low birthweight, extremely premature) actually may be reported as fetal deaths. It has been hypothesized that there may be a difference in reporting between San Bernardino County and the remainder of the State. To the extent that this practice difference actually exists, it accounts for some of the apparently higher infant mortality rate in San Bernardino County.

One way to measure this practice is to compare the ratio of neonatal infant deaths to fetal deaths between jurisdictions. Table 14 compares the neonatal to fetal death ratio, defined as neonatal infant deaths divided by fetal deaths, for San Bernardino County and the remainder of California. The table shows that San Bernardino County's neonatal to fetal death ratio is higher than the ratio for the remainder of State, indicating that San Bernardino County experiences relatively fewer fetal deaths and more neonatal infant deaths than California. The fetal death rates and neonatal infant death rates shown in Tables 11 and 13 respectively are consistent with this finding: fetal death rates are generally lower in San Bernardino County than California, and neonatal death rates are higher in the County than in California.

Table 14
Fetal Deaths, Neonatal Infant Deaths, and Neonatal to Fetal Death Ratio
San Bernardino County and Remainder of California, 1989-1999

| | S | an Bernardir | o County | California ex | cluding San | Bernardino County |
|------|--------|--------------|-------------------|---------------|-------------|-------------------|
| | Fetal | Neonatal | Neonatal to Fetal | Fetal | Neonatal | Neonatal to Fetal |
| Year | Deaths | Deaths | Death Ratio | Deaths | Deaths | Death Ratio |
| | | | | | | |
| 1989 | 205 | 201 | 0.98 | 3,619 | 2,802 | 0.77 |
| 1990 | 233 | 202 | 0.87 | 3,756 | 2,787 | 0.74 |
| 1991 | 196 | 188 | 0.96 | 3,638 | 2,629 | 0.72 |
| 1992 | 201 | 176 | 0.88 | 3,503 | 2,427 | 0.69 |
| 1993 | 200 | 163 | 0.82 | 3,374 | 2,330 | 0.69 |
| 1994 | 172 | 158 | 0.92 | 3,127 | 2,396 | 0.77 |
| 1995 | 170 | 154 | 0.91 | 3,185 | 2,100 | 0.66 |
| 1996 | 172 | 145 | 0.84 | 3,158 | 1,963 | 0.62 |
| 1997 | 142 | 149 | 1.05 | 2,854 | 1,991 | 0.70 |
| 1998 | 183 | no | t available | 2,870 | no | t available |
| 1999 | 140 | 140 | 1.00 | 2,787 | 1,789 | 0.64 |

Notes: Neonatal to fetal death ratio defined as [neonatal infant deaths]/[fetal deaths]. Source: California Department of Health Services, Birth Cohort and Fetal Death Files.

Postneonatal Mortality

Healthy People 2000 Objective: Reduce the postneonatal mortality rate to no

more than 2.5 per 1,000 live births.

1999 Status: San Bernardino County 2.2

California 1.8

San Bernardino County experienced higher postneonatal mortality rates than the State of California each year of the review period, as shown in Figure 33. California's rates have met the Healthy People 2000 Objective since 1994. The County trend is clearly decreasing, with the 1999 rate of 2.2 44 percent below the 1990 rate. To date, the County has met the objective in two years, 1996 and 1999.

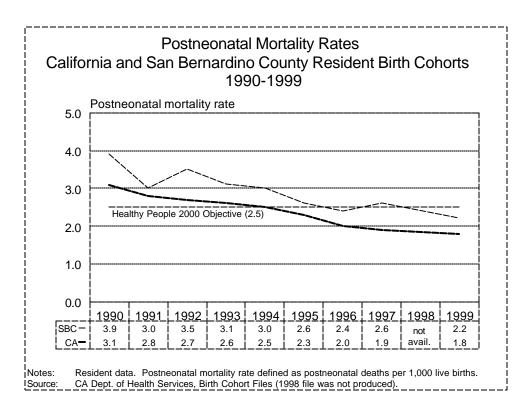


Figure 33

Postneonatal Mortality by Race/Ethnicity of Mother

Healthy People 2000 Objective: Reduce postneonatal mortality among blacks to

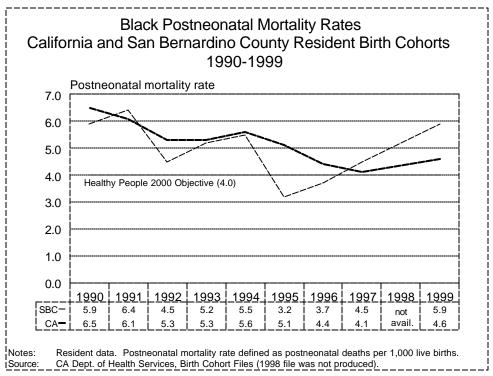
no more than 4.0 per 1,000 live births.

1999 Status: San Bernardino County 5.9

California 4.6

During the review period the San Bernardino County postneonatal mortality rate for blacks varied from a low of 3.2 in 1995 to a high of 5.9 in both 1990 and 1999 (Figure 34). The rates for most years are considered unreliable due to the relatively small number of deaths each year, as shown in Table 15. The State rate was much more stable and decreased for most of the review period; between 1990 and 1999, the State rate decreased 29 percent. California did not meet the HP 2000 objective during the review period; the County met the objective in the single year 1995.

San Bernardino County's and California's postneonatal mortality rate among Hispanics and whites decreased over the review period (Figures 35 and 36). The County rates were higher than the State rates for all of the review period for both Hispanics and whites. Postneonatal deaths and mortality rates by mother's race/ethnicity are presented in Table 15. No HP2000 objectives were established for white or



Hispanic postneonatal infant mortality rates.

Figure 34

Table 15
Postneonatal Deaths and Postneonatal Mortality Rates by Race/Ethnicity of Mother
California and San Bernardino County Residents, 1990-1999

| Year | | Postn | eonatal Dea | aths | | | Postneon | atal Mortali | ty Rate | |
|-------------|-----------|-------|-------------|-------|-----------|-------|----------|--------------|---------|-------|
| | Total | Black | Hispanic | White | Other | Total | Black | Hispanic | White | Other |
| California | | | | | | | | | | |
| 1990 | 1,870 | 312 | 651 | 726 | 181 | 3.1 | 6.5 | 2.7 | 2.8 | 2.9 |
| 1991 | 1,726 | 288 | 656 | 624 | 158 | 2.8 | 6.1 | 2.5 | 2.6 | 2.5 |
| 1992 | 1,626 | 240 | 641 | 582 | 163 | 2.7 | 5.3 | 2.4 | 2.5 | 2.6 |
| 1993 | 1,548 | 236 | 611 | 551 | 150 | 2.6 | 5.3 | 2.3 | 2.5 | 2.4 |
| 1994 | 1,406 | 234 | 536 | 492 | 144 | 2.5 | 5.6 | 2.1 | 2.4 | 2.3 |
| 1995 | 1,267 | 201 | 520 | 429 | 117 | 2.3 | 5.1 | 2.0 | 2.2 | 1.9 |
| <u>1996</u> | 1,059 | 163 | 461 | 334 | 101 | 2.0 | 4.4 | 1.8 | 1.8 | 1.6 |
| 1997 | 1,012 | 150 | 432 | 313 | 117 | 1.9 | 4.1 | 1.7 | 1.8 | 1.9 |
| 1998 | | | | | not avail | lable | | | | |
| <u>1999</u> | 913 | 156 | 400 | 251 | 106 | 1.8 | 4.6 | 1.6 | 1.5 | 1.7 |
| San Bernare | dino Coun | ty | | | | | | | | |
| 1990 | 131 | 17 | 36 | 69 | 9 | 3.9 | 5.9 | 3.3 | 3.8 | 5.7 |
| 1991 | 100 | 20 | 35 | 43 | 2 | 3.0 | 6.4 | 2.8 | 2.7 | 1.2 |
| 1992 | 114 | 14 | 35 | 57 | 8 | 3.5 | 4.5 | 2.7 | 3.9 | 4.4 |
| 1993 | 99 | 16 | 39 | 41 | 3 | 3.1 | 5.2 | 2.8 | 3.0 | 1.7 |
| 1994 | 95 | 16 | 37 | 37 | 5 | 3.0 | 5.5 | 2.7 | 2.9 | 1.9 |
| 1995 | 79 | 9 | 32 | 34 | 4 | 2.6 | 3.2 | 2.3 | 2.9 | 2.2 |
| 1996 | 72 | 10 | 29 | 28 | 5 | 2.4 | 3.7 | 2.0 | 2.6 | 3.0 |
| 1997 | 75 | 12 | 27 | 31 | 5 | 2.6 | 4.5 | 1.9 | 3.1 | 3.2 |
| 1998 | | | | | not avail | lable | | | | |
| 1999 | 63 | 16 | 25 | 16 | 6 | 2.2 | 5.9 | 1.7 | 1.7 | 3.8 |

Note: Rates calculated for fewer than 20 events, shown in *italics*, are unreliable and should be interpreted with caution. Source: California Department of Health Services, Birth Cohort Files (1998 file was not produced).

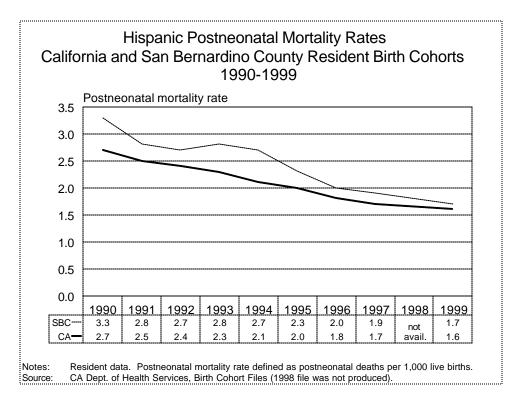


Figure 35

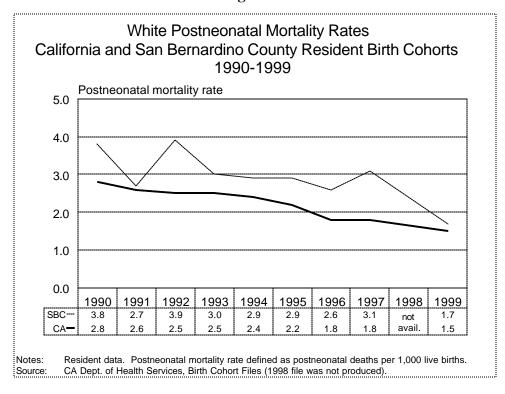


Figure 36

San Bernardino County Live Births 1990-2000

APPENDIX A. GLOSSARY OF TERMS

Birthweight The weight of the infant in grams at the time of birth or fetal death.

Childbearing age Women 15-44 years of age.

Cohort A group of people born in the same period.

Fetal death A death prior to the complete expulsion or extraction from its mother of a product

of conception (irrespective of the duration of pregnancy); the death is indicated by the fact that after such separation, the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. This definition was promulgated by the World Health Organization in 1950 and is set forth in the California Administrative Code, Title 17, Chapter 1, Article 3. If the fetus is of 20 weeks or more gestational age, the death must be registered with the local registrar.

Infant death A death occurring during the first year of life.

Live birth The complete expulsion or extraction from its mother of a product of conception

(irrespective of the duration of pregnancy) which, after such separation, breathes or shows any other evidence of life such as the beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. This definition was promulgated by the World Health Organization in 1950 and is set forth in the

California Administrative Code, Title 17, Chapter 1, Article 3.

Low birthweight A live birth or fetal death weighing less than 2,500 grams (5 pounds, 8 ounces).

Neonatal death A death occurring during the first 27 days of life.

Place of residence Where a person lives or maintains legal residency. For live births and fetal

deaths, the mother's residence is used.

Postneonatal death A death occurring between the 28th day and the end of the first year of life.

Very low birthweight A live birth or fetal death weighing less than 1,500 grams (3 pounds, 5 ounces).

APPENDIX B. RATES AND RATIOS

Age-specific birth rate = number of live births to women in specified age group x 1000

estimated female population in specified age group

Crude birth rate = <u>number of live births</u> x 1000

(live birth rate) estimated total population

Fetal death ratio = <u>number of reportable fetal deaths</u> x 1000

total number of live births

General fertility rate = number of live births x 1000

Estimated female population aged 15-44 years

Infant mortality rate = <u>number of deaths under 1 year of age</u> x 1000

number of live births

Neonatal mortality rate = <u>number of deaths under 28 days of age</u> x 1000

number of live births

Neonatal to fetal = <u>number of neonatal infant deaths</u>

death ratio number of fetal deaths

Postneonatal mortality = <u>number of deaths 28 days to 1 year of age</u> x 1000

e number of live births

Cohort infant = <u>number of deaths under 1 year of age of members of the cohort</u> x 1000

mortality rate number of live births in the cohort

| Mother's Race/Ethnicity | | 1990 | 1991 | 1992 | 1993 | 1994* | 1995 | 1996 | 1997 | 1998 | 1999 | 2000** |
|-------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| All Race/Ethnicities | Number | 33,393 | 33,021 | 32,821 | 32,249 | 31,457 | 30,109 | 29,359 | 28,319 | 28,245 | 28,397 | 28,657 |
| | Percent | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| American Indian, | Number | 153 | 125 | 173 | 161 | 164 | 146 | 175 | 141 | 147 | 144 | 147 |
| Eskimo, Aleut | Percent | 0.5 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 |
| Asian-Cambodian | Number | 64 | 68 | 73 | 77 | 78 | 65 | 59 | 53 | 39 | 50 | 55 |
| | Percent | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| Asian-Chinese | Number | 138 | 158 | 193 | 166 | 174 | 176 | 153 | 144 | 171 | 149 | 188 |
| | Percent | 0.4 | 0.5 | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | 0.7 |
| Asian-Indian | Number | 80 | 87 | 82 | 98 | 100 | 104 | 106 | 101 | 113 | 113 | 114 |
| | Percent | 0.2 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Asian-Japanese | Number | 75 | 71 | 75 | 76 | 84 | 68 | 68 | 61 | 69 | 49 | 52 |
| | Percent | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Asian-Korean | Number | 134 | 137 | 127 | 116 | 114 | 108 | 100 | 91 | 89 | 85 | 94 |
| | Percent | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Asian-Laotian | Number | 15 | 16 | 18 | 19 | 17 | 10 | 10 | 23 | 10 | 12 | 11 |
| | Percent | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Asian-Other | Number | 55 | 56 | 60 | 76 | 122 | 176 | 161 | 187 | 173 | 176 | 193 |
| | Percent | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.6 | 0.5 | 0.7 | 0.6 | 0.6 | 0.7 |
| Asian-Thai | Number | 39 | 43 | 30 | 42 | 32 | 29 | 27 | 24 | 21 | 20 | 23 |
| | Percent | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Asian-Vietnamese | Number | 134 | 163 | 197 | 196 | 198 | 181 | 179 | 171 | 133 | 162 | 201 |

NOTES: ALL RACE/ETHNIC CATEGORIES EXCEPT "HISPANIC" EXCLUDE PERSONS OF HISPANIC ORIGIN.

*SEE DISCUSSION ON PAGE 11 REGARDING RACE REPORTING ANOMALIES IN 1994.

**RACE REPORTING ON THE CALIFORNIA BIRTH CERTIFICATE CHANGED BEGINNING IN 2000.

SOURCE: CALIFORNIA DEPARTMENT OF HEALTH SERVICES, BIRTH RECORDS.

| Mother's Race/Ethn | icity | 1990 | 1991 | 1992 | 1993 | 1994* | 1995 | 1996 | 1997 | 1998 | 1999 | 2000** |
|--------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Percent | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.7 |
| Black | Number | 2,859 | 3,103 | 3,148 | 3,044 | 2,877 | 2,791 | 2,673 | 2,656 | 2,744 | 2,691 | 2,680 |
| | Percent | 8.6 | 9.4 | 9.6 | 9.4 | 9.1 | 9.3 | 9.1 | 9.4 | 9.7 | 9.5 | 9.4 |
| Filipino | Number | 405 | 429 | 431 | 419 | 439 | 416 | 408 | 408 | 388 | 402 | 417 |
| | Percent | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 |
| Guamanian | Number | 13 | 14 | 9 | 15 | 18 | 7 | 19 | 11 | 15 | 14 | 13 |
| | Percent | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 |
| Hawaiian | Number | 29 | 32 | 26 | 20 | 30 | 22 | 26 | 20 | 21 | 22 | 35 |
| | Percent | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Hispanic | Number | 11,027 | 12,541 | 13,114 | 13,751 | 13,542 | 13,994 | 14,322 | 14,248 | 14,339 | 14,626 | 15,093 |
| | Percent | 33.0 | 38.0 | 40.0 | 42.6 | 43.0 | 46.5 | 48.8 | 50.3 | 50.8 | 51.5 | 52.7 |
| Other | Number | 21 | 17 | 29 | 19 | 13 | 9 | 14 | 16 | 10 | 20 | 6 |
| | Percent | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 |
| Pacific Islander- | Number | 69 | 114 | 116 | 92 | 60 | 56 | 56 | 47 | 45 | 55 | 44 |
| Other | Percent | 0.2 | 0.3 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Samoan | Number | 28 | 34 | 45 | 43 | 45 | 46 | 38 | 37 | 48 | 40 | 52 |
| | Percent | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 |
| Unknown | Number | 130 | 152 | 134 | 161 | 875 | 179 | 76 | 35 | 55 | 46 | 51 |
| | Percent | 0.4 | 0.5 | 0.4 | 0.5 | 2.8 | 0.6 | 0.3 | 0.1 | 0.2 | 0.2 | 0.2 |
| White | Number | 17,925 | 15,661 | 14,741 | 13,658 | 12,475 | 11,526 | 10,689 | 9,845 | 9,615 | 9,521 | 9,188 |
| | Percent | 53.7 | 47.4 | 44.9 | 42.4 | 39.7 | 38.3 | 36.4 | 34.8 | 34.0 | 33.5 | 32.1 |

NOTES: ALL RACE/ETHNIC CATEGORIES EXCEPT "HISPANIC" EXCLUDE PERSONS OF HISPANIC ORIGIN.

*SEE DISCUSSION ON PAGE 11 REGARDING RACE REPORTING ANOMALIES IN 1994.

**RACE REPORTING ON THE CALIFORNIA BIRTH CERTIFICATE CHANGED BEGINNING IN 2000.

SOURCE: CALIFORNIA DEPARTMENT OF HEALTH SERVICES, BIRTH RECORDS.

APPENDIX D. SAN BERNARDINO COUNTY RESIDENT LIVE BIRTHS BY SELECTED CHARACTERISTICS AND RESIDENCE ZIP CODE, 1998-2000

| MOTHER'S | | | MOTHER'S F | RACE/ETHNICITY | | PERCENT | LOW BIRT | HWEIGHT | PERCENT | PERCENT |
|--------------------------|-----------------|------------------|---------------------|-----------------------|------------------|----------------------|---------------------|---------------------|----------------------------------|----------------------------------|
| RESIDENCE ZIP CODE | TOTAL BIRTHS | PERCENT BLACK | PERCENT HISPANIC | PERCENT OTHER RACE | PERCENT WHITE | MOTHERS <19 YEARS | PERCENT <2500 GM | PERCENT <1500 GM | FIRST TRIMESTER PRENATAL CARE | MEDI-CAL FUNDED PRENATAL CARE |
| San Bernardino County | 85,299 | 9.5 | 51.7 | 5.6 | 33.2 | 14.4 | 6.4 | 1.3 | 76.4 | 43.4 |
| 91701 | 1,381 | 5.1 | 29.8 | 8.1 | 56.9 | 8.0 | 6.2 | 1.0 | 81.8 | 15.6 |
| 91708 | 10 | 0.0 | 60.0 | 10.0 | 30.0 | 0.0 | 0.0 | 0.0 | 70.0 | 40.0 |
| 91709 | 3,276 | 4.7 | 30.0 | 23.1 | 42.2 | 4.6 | 5.9 | 1.4 | 92.5 | 9.1 |
| 91710 | 3,161 | 2.8 | 64.1 | 4.7 | 28.4 | 13.6 | 5.7 | 0.9 | 81.3 | 31.3 |
| 91729 | 5 | 20.0 | 40.0 | 0.0 | 40.0 | 20.0 | 0.0 | 0.0 | 60.0 | 20.0 |
| 91730 | 2,577 | 8.2 | 43.5 | 7.0 | 41.3 | 9.7 | 5.9 | 1.2 | 77.9 | 25.9 |
| 91737 | 730 | 7.9 | 23.3 | 8.1 | 60.7 | 6.7 | 5.1 | 0.5 | 84.0 | 14.4 |
| 91739 | 548 | 4.7 | 34.1 | 7.7 | 53.5 | 6.6 | 5.5 | 0.9 | 85.9 | 12.0 |
| 91759 | 16 | 0.0 | 18.8 | 0.0 | 81.3 | 12.5 | 6.3 | 0.0 | 100.0 | 18.8 |
| 91761 | 3,348 | 6.2 | 70.4 | 4.2 | 19.2 | 14.0 | 6.0 | 1.3 | 76.9 | 40.7 |
| 91762 | 3,370 | 5.1 | 73.9 | 3.8 | 17.3 | 14.3 | 5.4 | 1.2 | 74.5 | 50.4 |
| 91763 | 1,827 | 5.1 | 74.4 | 8.3 | 12.3 | 13.1 | 5.7 | 0.7 | 79.0 | 51.5 |
| 91764 | 3,078 | 6.2 | 75.9 | 3.3 | 14.5 | 15.1 | 6.0 | 1.6 | 71.8 | 52.4 |
| 91766 | 73 | 2.7 | 61.6 | 15.1 | 20.5 | 6.8 | 9.6 | 5.5 | 84.9 | 30.1 |
| 91784 | 533 | 5.1 | 20.3 | 9.4 | 65.3 | 4.7 | 6.8 | 1.1 | 85.0 | 8.4 |
| 91786 | 2,321 | 9.4 | 46.0 | 7.7 | 36.9 | 11.1 | 5.6 | 1.2 | 74.9 | 37.9 |
| 92242 | 11 | 0.0 | 27.3 | 0.0 | 72.7 | 9.1 | 0.0 | 0.0 | 63.6 | 81.8 |
| 92252 | 253 | 2.4 | 14.2 | 3.2 | 80.2 | 15.8 | 8.7 | 2.8 | 85.0 | 54.5 |
| 92256 | 98 | 2.0 | 15.3 | 4.1 | 78.6 | 11.2 | 9.2 | 0.0 | 77.6 | 48.0 |
| 92277 | 1,121 | 8.2 | 17.6 | 8.7 | 65.6 | 14.5 | 7.7 | 1.6 | 79.6 | 25.3 |
| 92278 | 769 | 10.1 | 19.9 | 6.6 | 63.3 | 13.7 | 8.2 | 1.2 | 82.6 | 0.8 |
| 92284 | 660 | 3.0 | 20.6 | 4.4 | 72.0 | 17.3 | 9.7 | 1.5 | 82.9 | 55.6 |

NOTE: ZIP CODES WITH FEWER THAN FIVE BIRTHS ARE NOT SHOWN. SOURCE: CALIFORNIA DEPARTMENT OF HEALTH SERVICES, BIRTH FILES.

APPENDIX D. SAN BERNARDINO COUNTY RESIDENT LIVE BIRTHS BY SELECTED CHARACTERISTICS AND RESIDENCE ZIP CODE, 1998-2000

| MOTHER'S | | | MOTHER'S F | RACE/ETHNICITY | | PERCENT | LOW BIRT | HWEIGHT | PERCENT | PERCENT |
|-----------------------|-----------------|------------------|---------------------|-----------------------|------------------|----------------------|---------------------|---------------------|----------------------------------|----------------------------------|
| RESIDENCE ZIP CODE | TOTAL BIRTHS | PERCENT BLACK | PERCENT HISPANIC | PERCENT OTHER RACE | PERCENT WHITE | MOTHERS <19 YEARS | PERCENT <2500 GM | PERCENT <1500 GM | FIRST TRIMESTER PRENATAL CARE | MEDI-CAL FUNDED PRENATAL CARE |
| 92285 | 41 | 0.0 | 2.4 | 2.4 | 95.1 | 24.4 | 4.9 | 2.4 | 82.9 | 82.9 |
| 92286 | 8 | 12.5 | 0.0 | 0.0 | 87.5 | 25.0 | 0.0 | 0.0 | 87.5 | 50.0 |
| 92301 | 1,100 | 11.4 | 48.8 | 3.2 | 36.6 | 15.9 | 7.9 | 1.0 | 75.5 | 51.4 |
| 92305 | 17 | 0.0 | 17.6 | 0.0 | 82.4 | 0.0 | 5.9 | 5.9 | 52.9 | 17.6 |
| 92307 | 1,233 | 10.1 | 23.7 | 3.4 | 62.8 | 13.9 | 6.3 | 0.9 | 80.1 | 46.3 |
| 92308 | 1,127 | 8.6 | 26.1 | 2.8 | 62.6 | 17.4 | 5.8 | 1.2 | 78.1 | 49.2 |
| 92309 | 33 | 0.0 | 63.6 | 3.0 | 33.3 | 9.1 | 6.1 | 0.0 | 75.8 | 66.7 |
| 92310 | 967 | 16.0 | 22.0 | 7.2 | 54.7 | 8.3 | 6.7 | 2.0 | 91.9 | 0.8 |
| 92311 | 1,480 | 9.5 | 40.7 | 6.6 | 43.2 | 21.8 | 6.8 | 1.2 | 75.7 | 50.4 |
| 92313 | 428 | 5.6 | 37.4 | 7.7 | 49.3 | 10.5 | 5.8 | 1.2 | 82.9 | 18.5 |
| 92314 | 245 | 0.8 | 18.4 | 2.9 | 78.0 | 12.2 | 7.3 | 1.6 | 82.4 | 50.6 |
| 92315 | 216 | 0.5 | 36.6 | 1.9 | 61.1 | 16.2 | 8.8 | 2.3 | 69.0 | 62.5 |
| 92316 | 1,365 | 5.5 | 76.8 | 1.4 | 16.3 | 17.6 | 6.1 | 0.9 | 74.1 | 50.0 |
| 92317 | 66 | 1.5 | 40.9 | 1.5 | 56.1 | 13.6 | 9.1 | 0.0 | 78.8 | 40.9 |
| 92318 | 12 | 0.0 | 91.7 | 8.3 | 0.0 | 16.7 | 8.3 | 0.0 | 75.0 | 75.0 |
| 92321 | 53 | 0.0 | 43.4 | 0.0 | 56.6 | 17.0 | 3.8 | 0.0 | 69.8 | 56.6 |
| 92322 | 28 | 0.0 | 10.7 | 0.0 | 89.3 | 14.3 | 10.7 | 7.1 | 75.0 | 25.0 |
| 92324 | 3,150 | 11.1 | 66.9 | 5.9 | 16.2 | 16.6 | 6.9 | 1.6 | 72.5 | 49.6 |
| 92325 | 375 | 0.5 | 13.6 | 4.0 | 81.9 | 13.3 | 5.3 | 1.1 | 79.7 | 40.3 |
| 92326 | 16 | 6.3 | 37.5 | 0.0 | 56.3 | 6.3 | 0.0 | 0.0 | 87.5 | 56.3 |
| 92327 | 26 | 0.0 | 23.1 | 3.8 | 73.1 | 11.5 | 7.7 | 0.0 | 84.6 | 65.4 |
| 92329 | 102 | 2.0 | 15.7 | 5.9 | 76.5 | 12.7 | 5.9 | 2.9 | 73.5 | 36.3 |
| 92333 | 10 | 0.0 | 10.0 | 20.0 | 70.0 | 0.0 | 0.0 | 0.0 | 80.0 | 20.0 |
| 92334 | 21 | 23.8 | 47.6 | 4.8 | 23.8 | 19.0 | 9.5 | 0.0 | 76.2 | 66.7 |

NOTE: ZIP CODES WITH FEWER THAN FIVE BIRTHS ARE NOT SHOWN. SOURCE: CALIFORNIA DEPARTMENT OF HEALTH SERVICES, BIRTH FILES.

60

APPENDIX D. SAN BERNARDINO COUNTY RESIDENT LIVE BIRTHS BY SELECTED CHARACTERISTICS AND RESIDENCE ZIP CODE, 1998-2000

| MOTHER'S | | | MOTHER'S F | RACE/ETHNICITY | | PERCENT | LOW BIRT | HWEIGHT | PERCENT | PERCENT |
|-----------------------|-----------------|------------------|---------------------|-----------------------|------------------|----------------------|---------------------|---------------------|----------------------------------|----------------------------------|
| RESIDENCE ZIP CODE | TOTAL BIRTHS | PERCENT BLACK | PERCENT HISPANIC | PERCENT OTHER RACE | PERCENT WHITE | MOTHERS <19 YEARS | PERCENT <2500 GM | PERCENT <1500 GM | FIRST TRIMESTER PRENATAL CARE | MEDI-CAL FUNDED PRENATAL CARE |
| 92335 | 5,773 | 6.6 | 77.1 | 2.2 | 14.1 | 16.2 | 6.2 | 1.3 | 71.1 | 56.1 |
| 92336 | 2,686 | 10.9 | 60.4 | 5.7 | 23.0 | 12.1 | 5.5 | 1.2 | 77.6 | 35.7 |
| 92337 | 1,518 | 10.3 | 66.5 | 4.7 | 18.5 | 9.5 | 5.2 | 0.9 | 77.9 | 27.9 |
| 92339 | 30 | 0.0 | 20.0 | 3.3 | 76.7 | 16.7 | 3.3 | 0.0 | 86.7 | 16.7 |
| 92340 | 11 | 0.0 | 9.1 | 18.2 | 72.7 | 9.1 | 18.2 | 0.0 | 54.5 | 27.3 |
| 92341 | 13 | 0.0 | 7.7 | 0.0 | 92.3 | 0.0 | 23.1 | 7.7 | 76.9 | 53.8 |
| 92342 | 104 | 5.8 | 28.8 | 1.9 | 63.5 | 11.5 | 6.7 | 2.9 | 85.6 | 29.8 |
| 92345 | 2,908 | 4.4 | 37.0 | 2.6 | 56.0 | 16.5 | 6.1 | 1.1 | 79.5 | 46.8 |
| 92346 | 2,114 | 14.2 | 38.2 | 6.1 | 41.5 | 14.2 | 6.4 | 1.3 | 75.7 | 41.2 |
| 92347 | 66 | 0.0 | 43.9 | 1.5 | 54.5 | 16.7 | 6.1 | 1.5 | 65.2 | 45.5 |
| 92352 | 173 | 1.2 | 12.7 | 2.3 | 83.8 | 9.8 | 6.9 | 2.3 | 85.0 | 26.6 |
| 92354 | 686 | 6.6 | 21.7 | 30.9 | 40.8 | 6.4 | 5.0 | 0.6 | 81.9 | 27.8 |
| 92356 | 186 | 1.6 | 22.6 | 4.3 | 71.5 | 19.4 | 4.8 | 0.5 | 71.5 | 63.4 |
| 92358 | 26 | 0.0 | 15.4 | 7.7 | 76.9 | 11.5 | 3.8 | 0.0 | 69.2 | 50.0 |
| 92359 | 299 | 3.7 | 32.8 | 4.0 | 59.5 | 15.1 | 3.0 | 1.3 | 73.9 | 36.8 |
| 92363 | 191 | 1.6 | 29.3 | 11.5 | 57.6 | 26.7 | 5.2 | 1.0 | 62.8 | 75.4 |
| 92365 | 80 | 0.0 | 20.0 | 0.0 | 80.0 | 15.0 | 7.5 | 2.5 | 65.0 | 48.8 |
| 92368 | 49 | 4.1 | 59.2 | 0.0 | 36.7 | 18.4 | 2.0 | 0.0 | 61.2 | 63.3 |
| 92371 | 278 | 1.1 | 22.3 | 2.9 | 73.7 | 15.1 | 9.0 | 1.1 | 74.8 | 45.3 |
| 92372 | 113 | 0.9 | 20.4 | 1.8 | 77.0 | 16.8 | 10.6 | 0.9 | 77.9 | 38.1 |
| 92373 | 1,069 | 5.5 | 22.4 | 11.5 | 60.6 | 7.8 | 5.1 | 1.2 | 79.9 | 22.9 |
| 92374 | 1,552 | 6.6 | 45.0 | 5.4 | 42.9 | 14.0 | 6.8 | 1.4 | 71.9 | 37.8 |
| 92375 | 8 | 0.0 | 25.0 | 12.5 | 62.5 | 12.5 | 0.0 | 0.0 | 50.0 | 50.0 |
| 92376 | 4,447 | 20.3 | 64.9 | 3.4 | 11.5 | 18.4 | 7.4 | 1.5 | 71.9 | 54.6 |

NOTE: ZIP CODES WITH FEWER THAN FIVE BIRTHS ARE NOT SHOWN. SOURCE: CALIFORNIA DEPARTMENT OF HEALTH SERVICES, BIRTH FILES.

APPENDIX D. SAN BERNARDINO COUNTY RESIDENT LIVE BIRTHS BY SELECTED CHARACTERISTICS AND RESIDENCE ZIP CODE, 1998-2000

| MOTHER'S RESIDENCE ZIP CODE | TOTAL BIRTHS | MOTHER'S RACE/ETHNICITY | | | | PERCENT | LOW BIRTHWEIGHT | | PERCENT | PERCENT |
|-----------------------------------|-----------------|-------------------------|---------------------|-----------------------|------------------|----------------------|---------------------|---------------------|----------------------------------|----------------------------------|
| | | PERCENT BLACK | PERCENT HISPANIC | PERCENT OTHER RACE | PERCENT WHITE | MOTHERS <19 YEARS | PERCENT <2500 GM | PERCENT <1500 GM | FIRST TRIMESTER PRENATAL CARE | MEDI-CAL FUNDED PRENATAL CARE |
| 92377 | 756 | 20.1 | 46.4 | 3.7 | 29.8 | 11.5 | 5.7 | 1.5 | 79.6 | 20.6 |
| 92378 | 19 | 10.5 | 36.8 | 0.0 | 52.6 | 10.5 | 5.3 | 5.3 | 78.9 | 36.8 |
| 92382 | 164 | 0.0 | 11.6 | 3.7 | 84.8 | 8.5 | 3.0 | 0.0 | 78.7 | 24.4 |
| 92385 | 9 | 0.0 | 33.3 | 0.0 | 66.7 | 0.0 | 0.0 | 0.0 | 77.8 | 55.6 |
| 92386 | 45 | 2.2 | 13.3 | 2.2 | 82.2 | 24.4 | 8.9 | 4.4 | 73.3 | 62.2 |
| 92391 | 79 | 0.0 | 27.8 | 2.5 | 69.6 | 13.9 | 6.3 | 2.5 | 81.0 | 35.4 |
| 92392 | 2,946 | 10.2 | 39.3 | 4.5 | 46.0 | 15.8 | 6.5 | 1.6 | 79.6 | 41.8 |
| 92393 | 9 | 11.1 | 44.4 | 0.0 | 44.4 | 0.0 | 11.1 | 0.0 | 77.8 | 66.7 |
| 92394 | 503 | 16.7 | 41.2 | 4.2 | 38.0 | 14.7 | 6.0 | 2.2 | 77.5 | 39.8 |
| 92397 | 160 | 0.0 | 10.0 | 5.0 | 85.0 | 5.6 | 9.4 | 3.8 | 82.5 | 16.3 |
| 92398 | 59 | 5.1 | 11.9 | 3.4 | 79.7 | 15.3 | 3.4 | 0.0 | 55.9 | 59.3 |
| 92399 | 1,467 | 0.5 | 27.5 | 2.1 | 69.9 | 10.1 | 5.5 | 1.1 | 75.3 | 32.2 |
| 92401 | 187 | 15.5 | 69.0 | 2.1 | 13.4 | 21.9 | 6.4 | 1.6 | 67.9 | 72.2 |
| 92402 | 11 | 36.4 | 54.5 | 0.0 | 9.1 | 18.2 | 9.1 | 0.0 | 72.7 | 63.6 |
| 92404 | 3,055 | 22.8 | 47.0 | 3.9 | 26.3 | 17.8 | 7.4 | 1.7 | 74.5 | 64.4 |
| 92405 | 1,726 | 16.7 | 60.1 | 2.0 | 21.2 | 19.3 | 7.1 | 1.5 | 72.0 | 61.9 |
| 92406 | 12 | 33.3 | 50.0 | 0.0 | 16.7 | 8.3 | 16.7 | 16.7 | 83.3 | 58.3 |
| 92407 | 2,533 | 13.5 | 48.4 | 5.4 | 32.7 | 16.7 | 6.5 | 1.5 | 74.8 | 46.3 |
| 92408 | 783 | 17.4 | 52.6 | 14.8 | 15.2 | 17.0 | 6.9 | 1.3 | 69.5 | 67.4 |
| 92410 | 3,270 | 15.4 | 69.0 | 3.3 | 12.4 | 19.9 | 7.1 | 1.3 | 67.9 | 75.1 |
| 92411 | 1,510 | 20.7 | 72.3 | 1.9 | 5.0 | 20.4 | 8.3 | 2.0 | 67.0 | 72.7 |
| 92423 | 6 | 0.0 | 16.7 | 16.7 | 66.7 | 0.0 | 0.0 | 0.0 | 83.3 | 33.3 |
| 92427 | 6 | 33.3 | 0.0 | 16.7 | 50.0 | 0.0 | 0.0 | 0.0 | 83.3 | 33.3 |
| 93562 | 77 | 0.0 | 23.4 | 5.2 | 71.4 | 20.8 | 6.5 | 0.0 | 74.0 | 66.2 |

NOTE: ZIP CODES WITH FEWER THAN FIVE BIRTHS ARE NOT SHOWN. SOURCE: CALIFORNIA DEPARTMENT OF HEALTH SERVICES, BIRTH FILES.